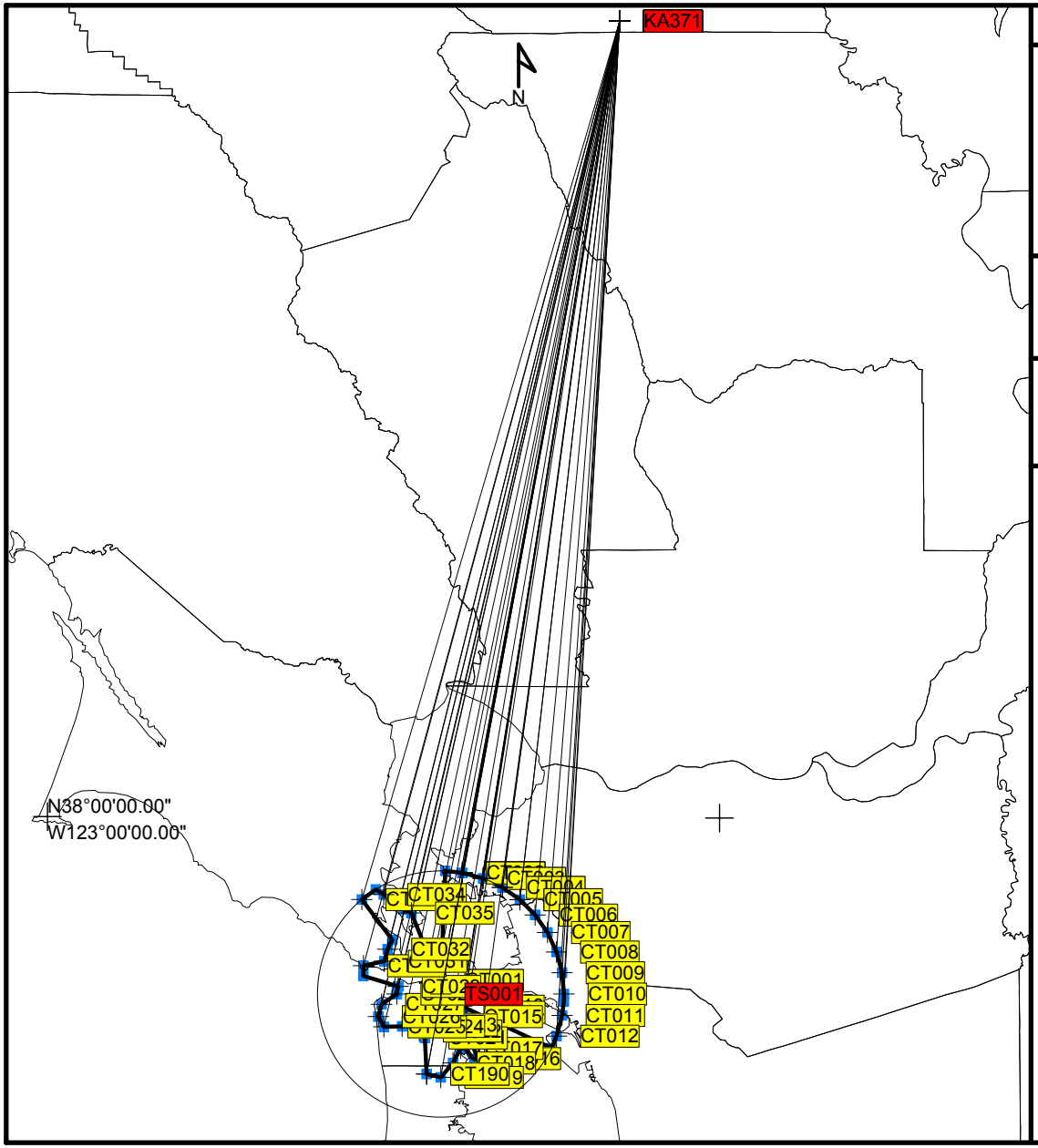
The following pages contain path study details for the proposed base station and CPE test locations to the following locations:

Call Sign, File No.: KA371, SESRWL1999101201864
Location . . . . . SALT CREEK (SCK 3A), CA: 38-56-20, 122-8-48

Call Sign, File No.: KA372, SESRWL2003103101527
Location . . . . . SALT CREEK (SCK 1A), CA: 38-56-21, 122-8-49

Call Sign, File No.: KA373, SESRWL2000121502350
Location . . . . . SALT CREEK (SCK 2A), CA: 38-56-22, 122-8-50



EDX SignalPro™: SANF37b.map

Prop. model: Longley-Rice v1.2.2
Time: 50.0% Loc.: 50.0%
Prediction Confidence Margin: 0.0dB
Climate: Continental Temperate
Land use (clutter): EDX-ASCII land use (clutter) data format
Atmospheric Abs.: none
K Factor: 1.333
RX Antenna - Type: OMNI
Height: 10.0 m AGL Gain: -2.15 dBd

KILOMETERS

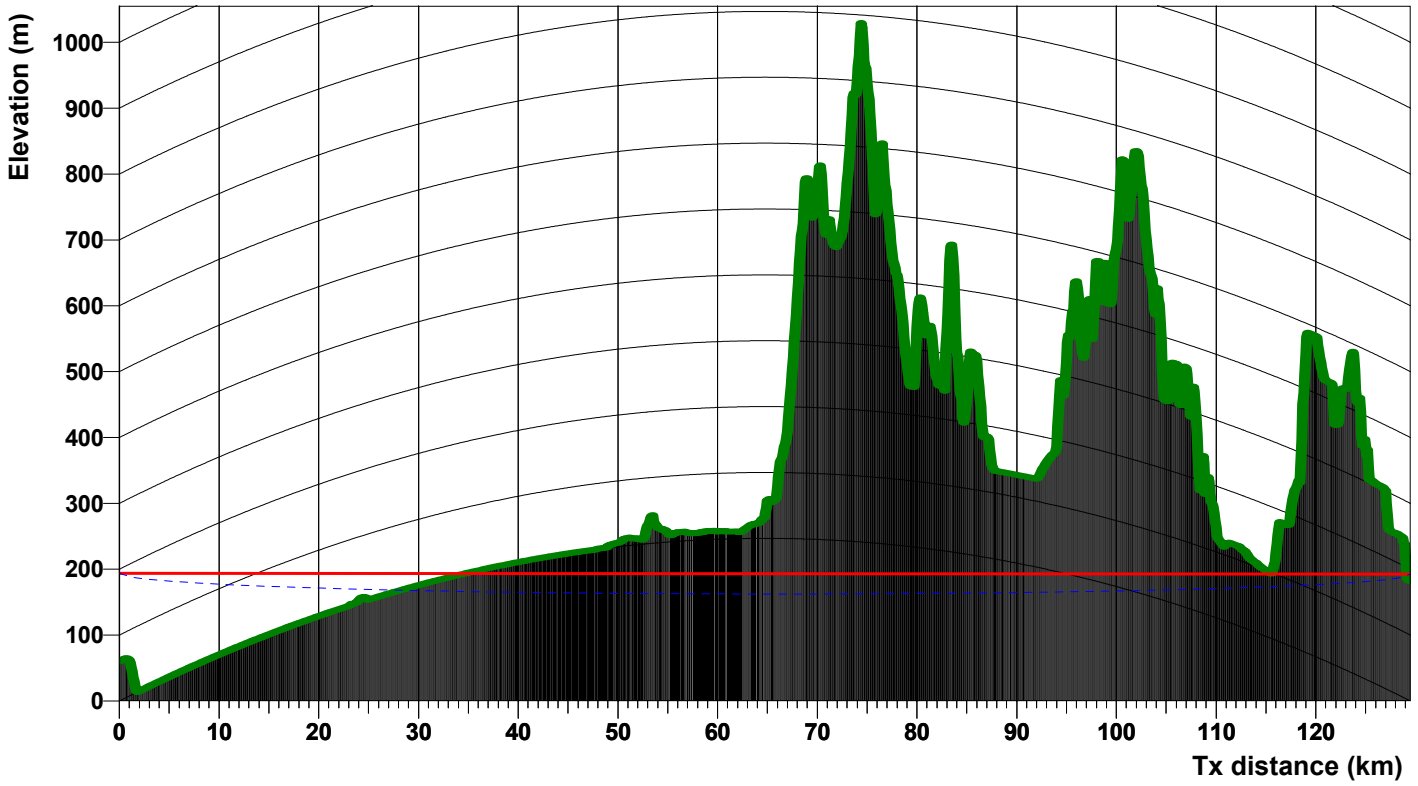
-5 0 20

San Francisco

Hub to Salt Creek

KA371 Map 30 May 2005

Link Study: trn/TS001-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: TS001
Name: Clay Jones
Location:
N37°47'35.12" W122°24'51.44"
Site elevation: 103.0 m
Antenna height: 91.0 m
Pointing azimuth: 10.3 °
Transmitter power: 1.78 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 6.00 dBi
Antenna file: TowerStreamOmni.pat
Total ERP: 7.78 dBW

Name: TS001 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 129.46 km
Number of obstacles: 0
Excess path loss: 106.36 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 252.36 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

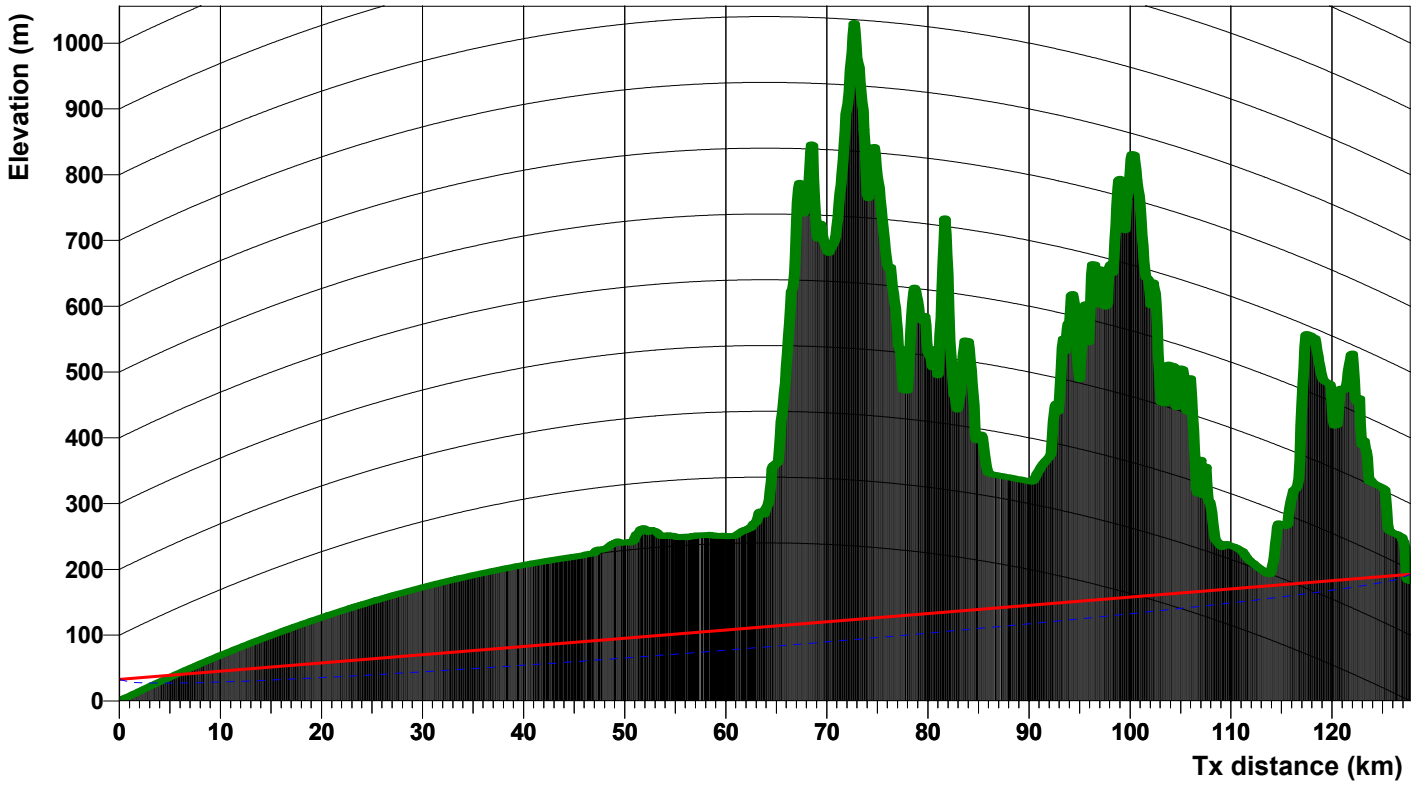
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 190.3 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -254.45 dBW

Notes

San Francisco
Hub to Salt Creek

KA371 TS001 30 May 2005

Link Study: trn/CT001-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT001
Name: CT001
Location:
N37°48'32.54" W122°24'51.00"
Site elevation: 1.8 m
Antenna height: 31.0 m
Pointing azimuth: 10.4 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT001 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 127.71 km
Number of obstacles: 0
Excess path loss: 102.99 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 248.87 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

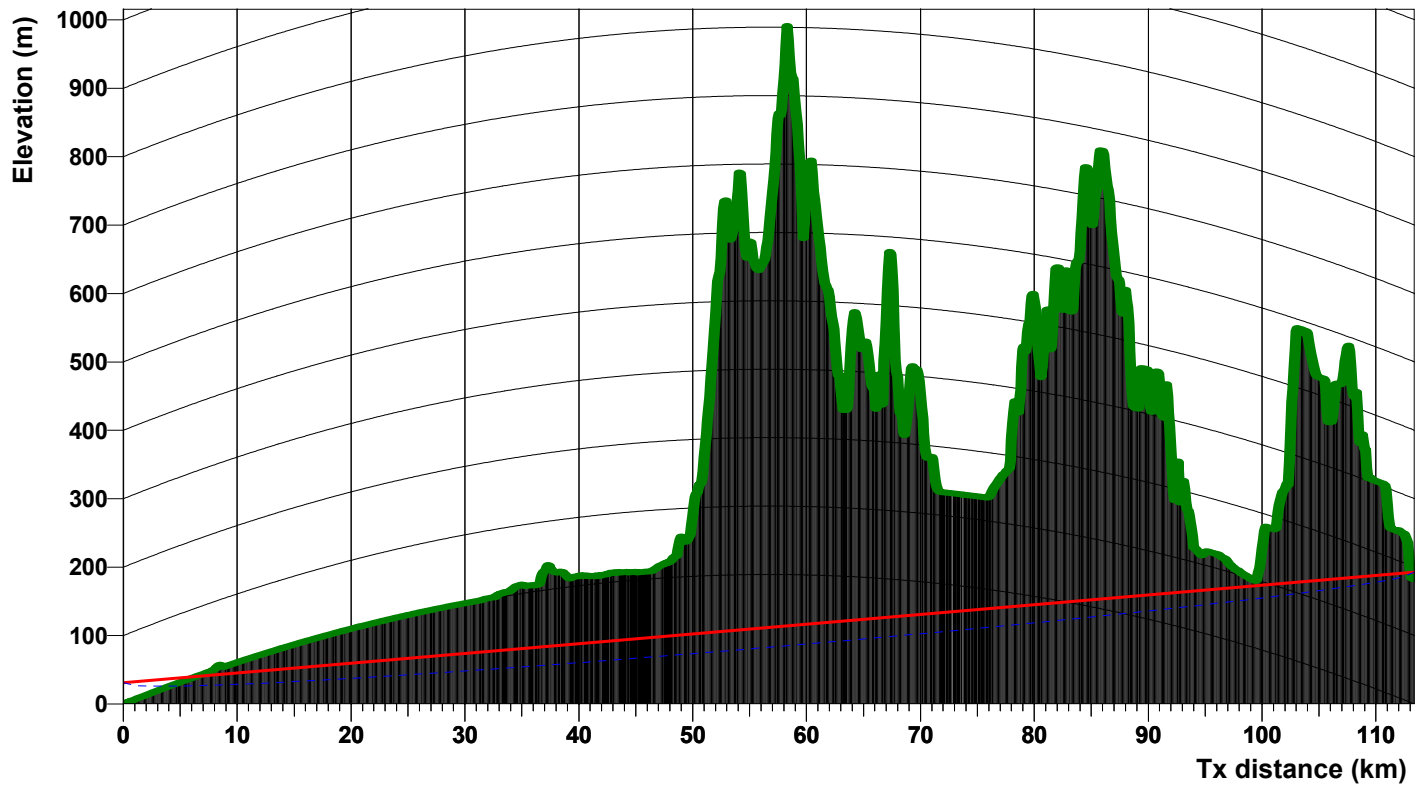
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 190.4 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -296.39 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT001 30 May 2005

Link Study: trn/CT002-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT002
Name: CT002
Location:
N37°56'09.19" W122°22'57.00"
Site elevation: 0.0 m
Antenna height: 31.0 m
Pointing azimuth: 10.4 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT002 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 113.35 km
Number of obstacles: 0
Excess path loss: 102.58 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 247.42 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

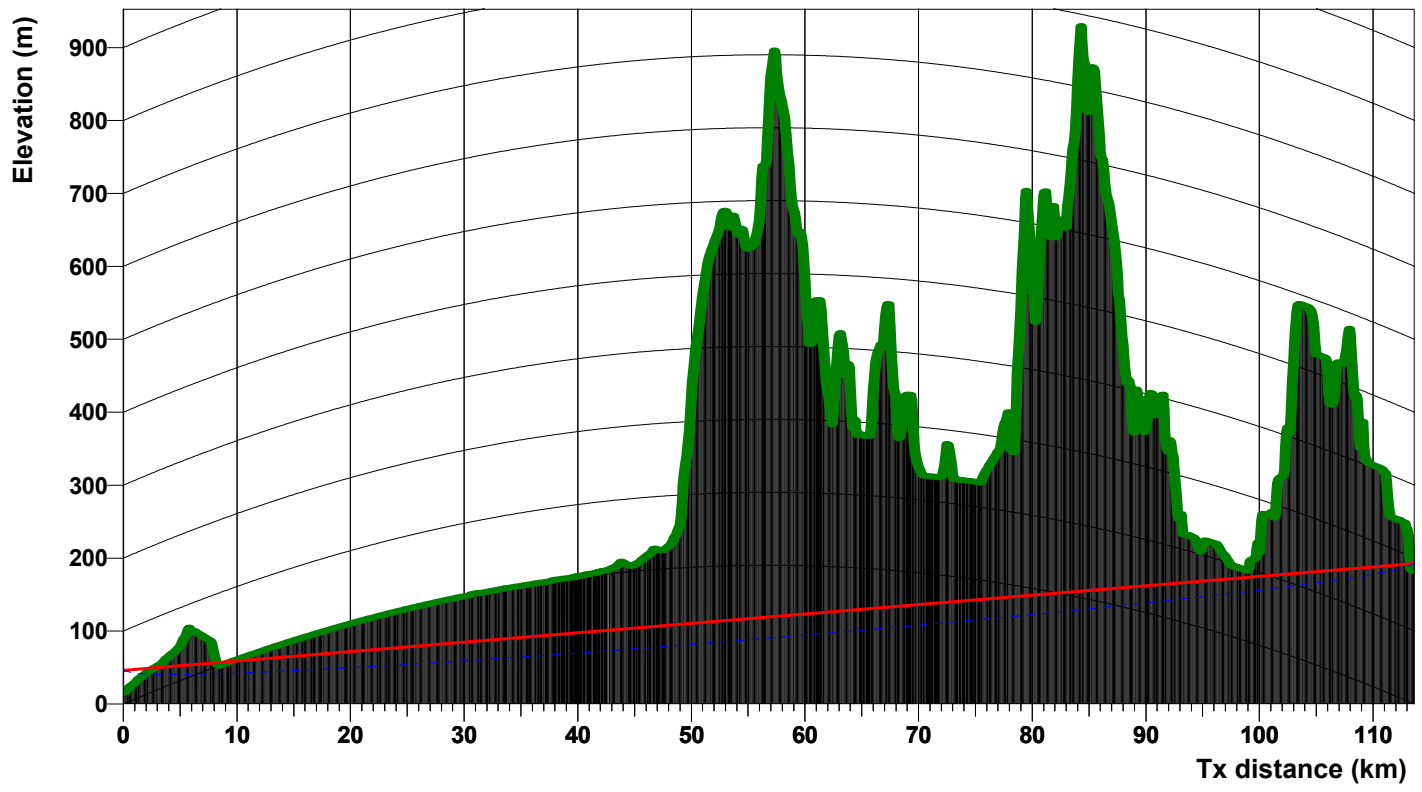
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 190.4 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -293.14 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT002 30 May 2005

Link Study: trn/CT003-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT003
Name: CT003
Location:
N37°55'45.64" W122°21'06.50"
Site elevation: 14.9 m
Antenna height: 31.0 m
Pointing azimuth: 9.0 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT003 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 113.61 km
Number of obstacles: 0
Excess path loss: 101.33 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 246.20 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

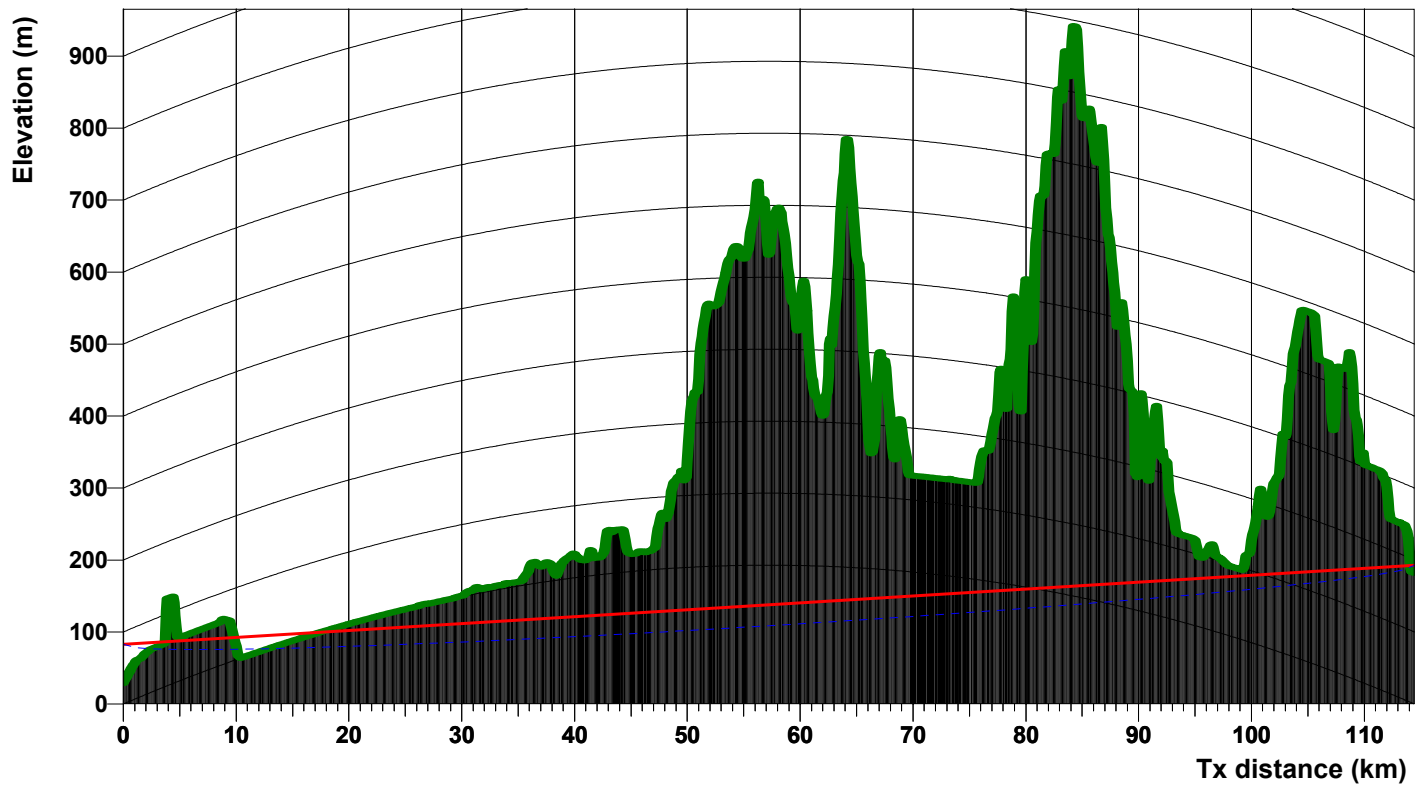
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 189.0 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -293.88 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT003 30 May 2005

Link Study: trn/CT004-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT004
Name: CT004
Location:
N37°55'07.18" W122°19'22.56"
Site elevation: 51.9 m
Antenna height: 31.0 m
Pointing azimuth: 7.7 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT004 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 114.42 km
Number of obstacles: 0
Excess path loss: 97.53 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 242.46 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

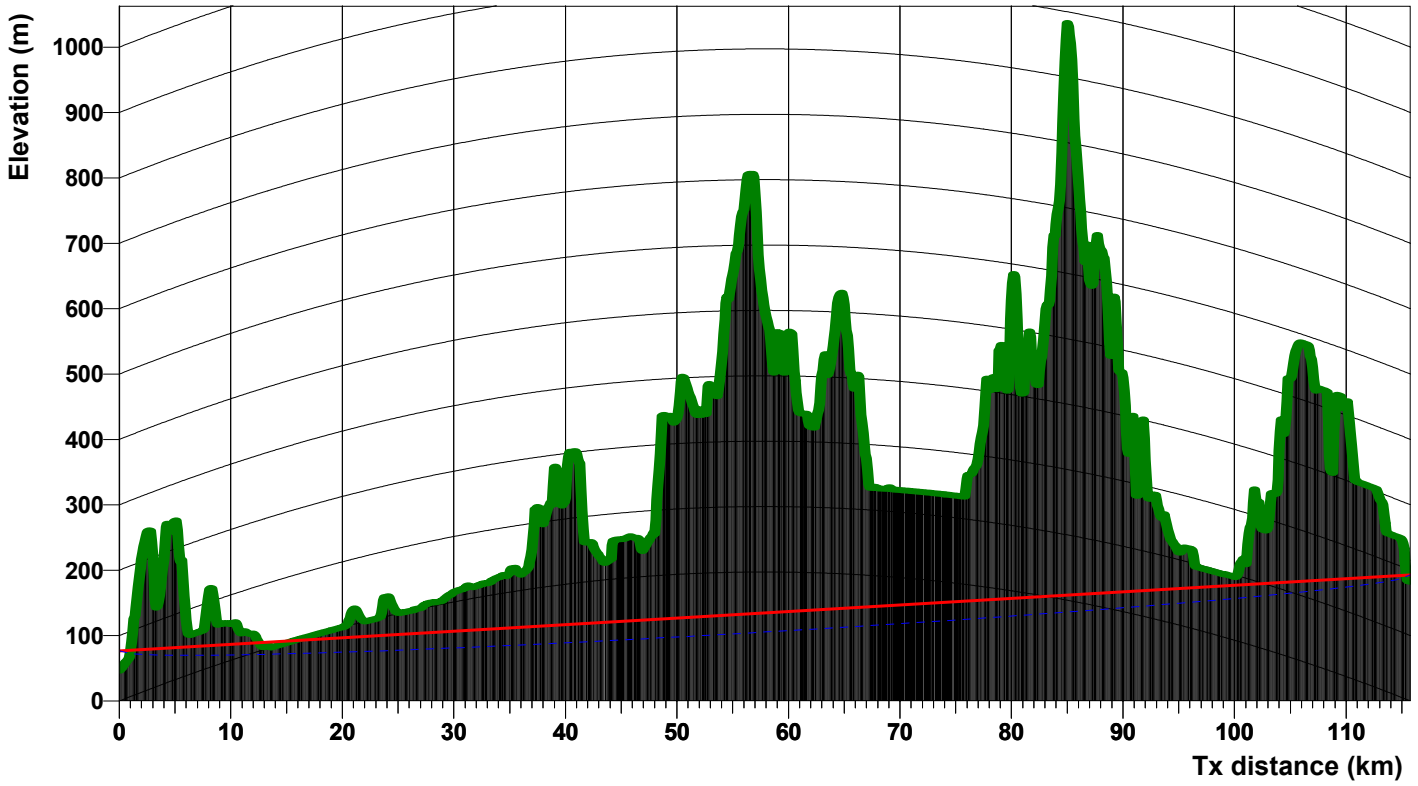
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 187.7 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -293.34 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT004 30 May 2005

Link Study: trn/CT005-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT005
Name: CT005
Location:
N37°54'14.99" W122°17'48.64"
Site elevation: 45.8 m
Antenna height: 31.0 m
Pointing azimuth: 6.4 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT005 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 115.74 km
Number of obstacles: 0
Excess path loss: 115.33 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 260.36 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

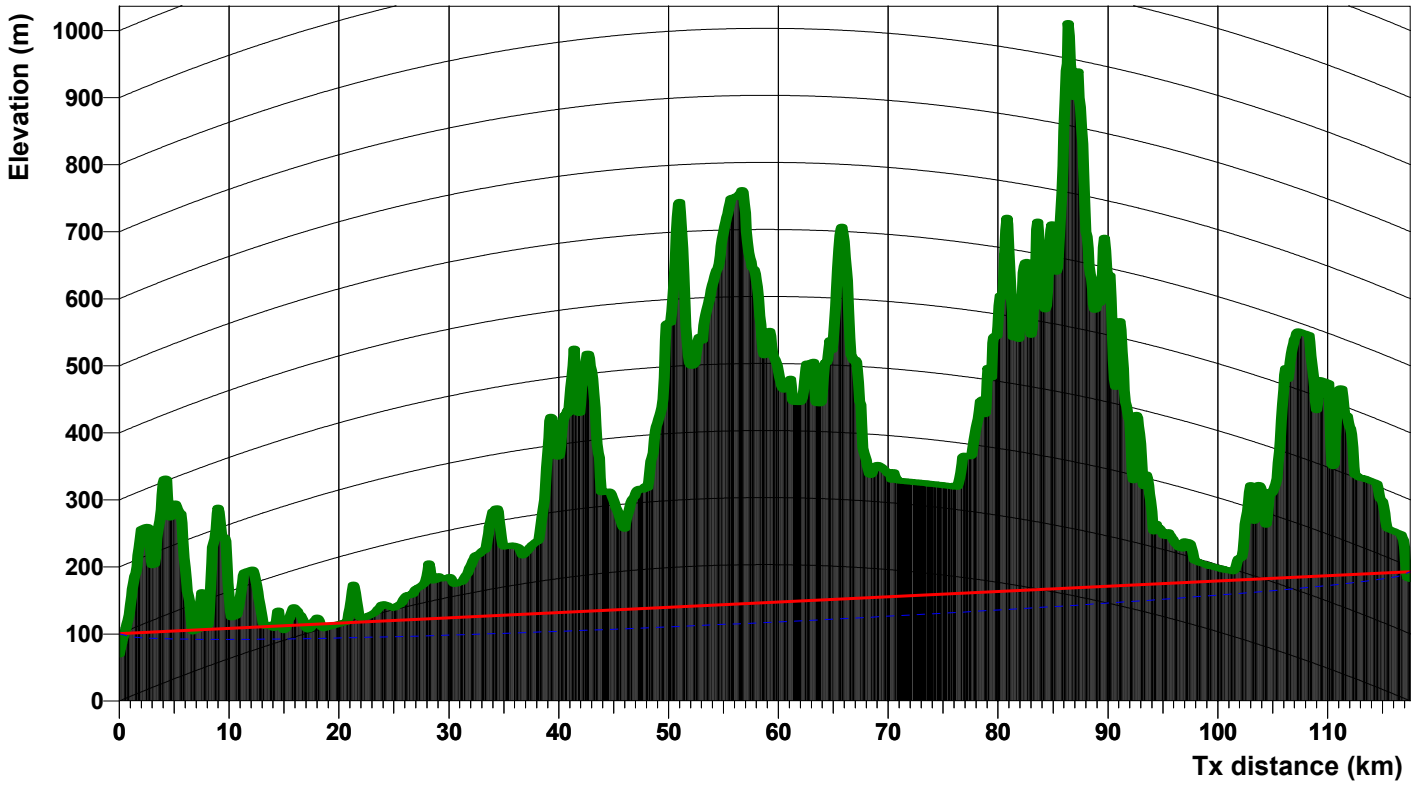
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 186.4 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -311.23 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT005 30 May 2005

Link Study: trn/CT006-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT006
Name: CT006
Location:
N37°53'10.65" W122°16'27.56"
Site elevation: 69.4 m
Antenna height: 31.0 m
Pointing azimuth: 5.4 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT006 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 117.51 km
Number of obstacles: 0
Excess path loss: 110.71 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 255.87 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

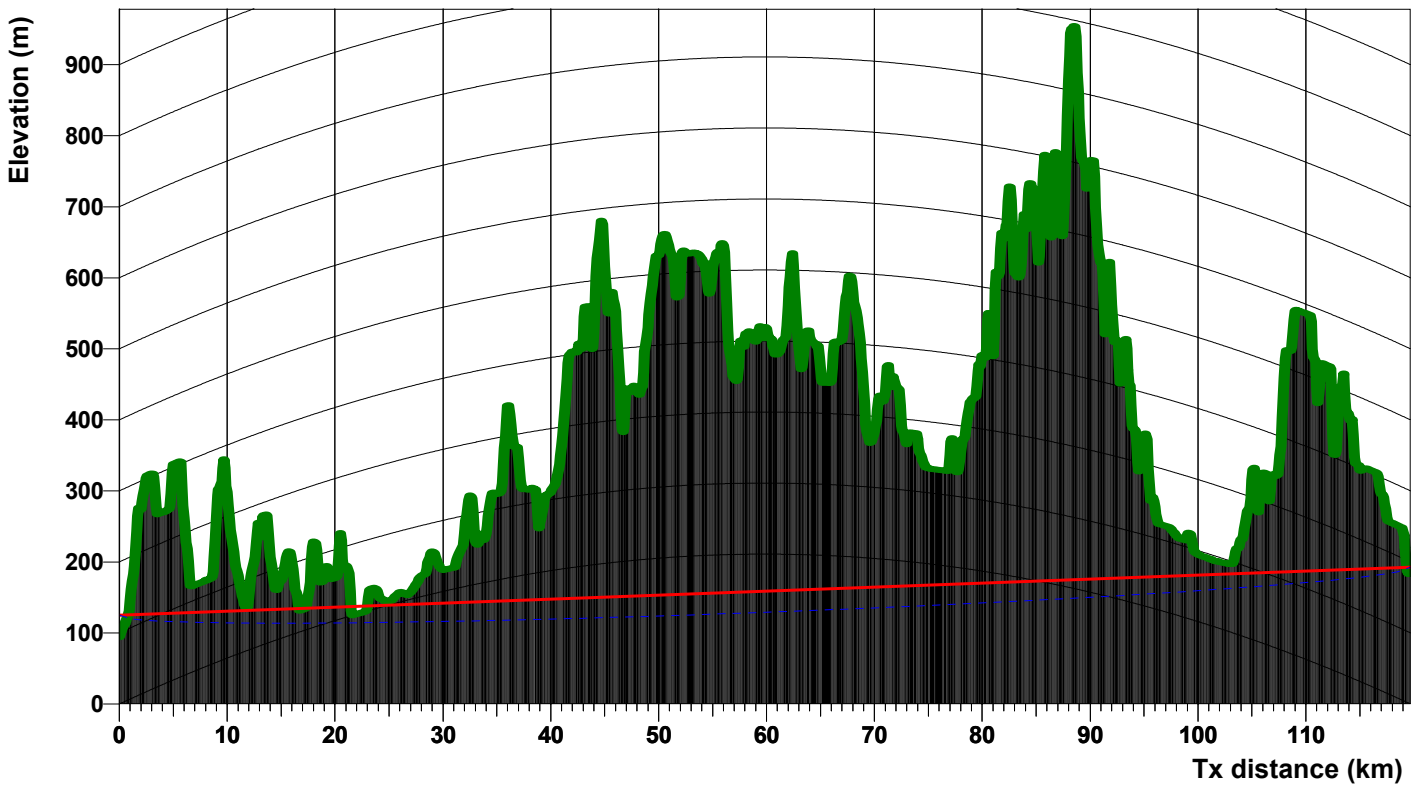
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 185.4 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -306.74 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT006 30 May 2005

Link Study: trn/CT007-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT007
Name: CT007
Location:
N37°51'56.12" W122°15'21.80"
Site elevation: 94.0 m
Antenna height: 31.0 m
Pointing azimuth: 4.5 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT007 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 119.66 km
Number of obstacles: 0
Excess path loss: 113.87 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 259.19 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

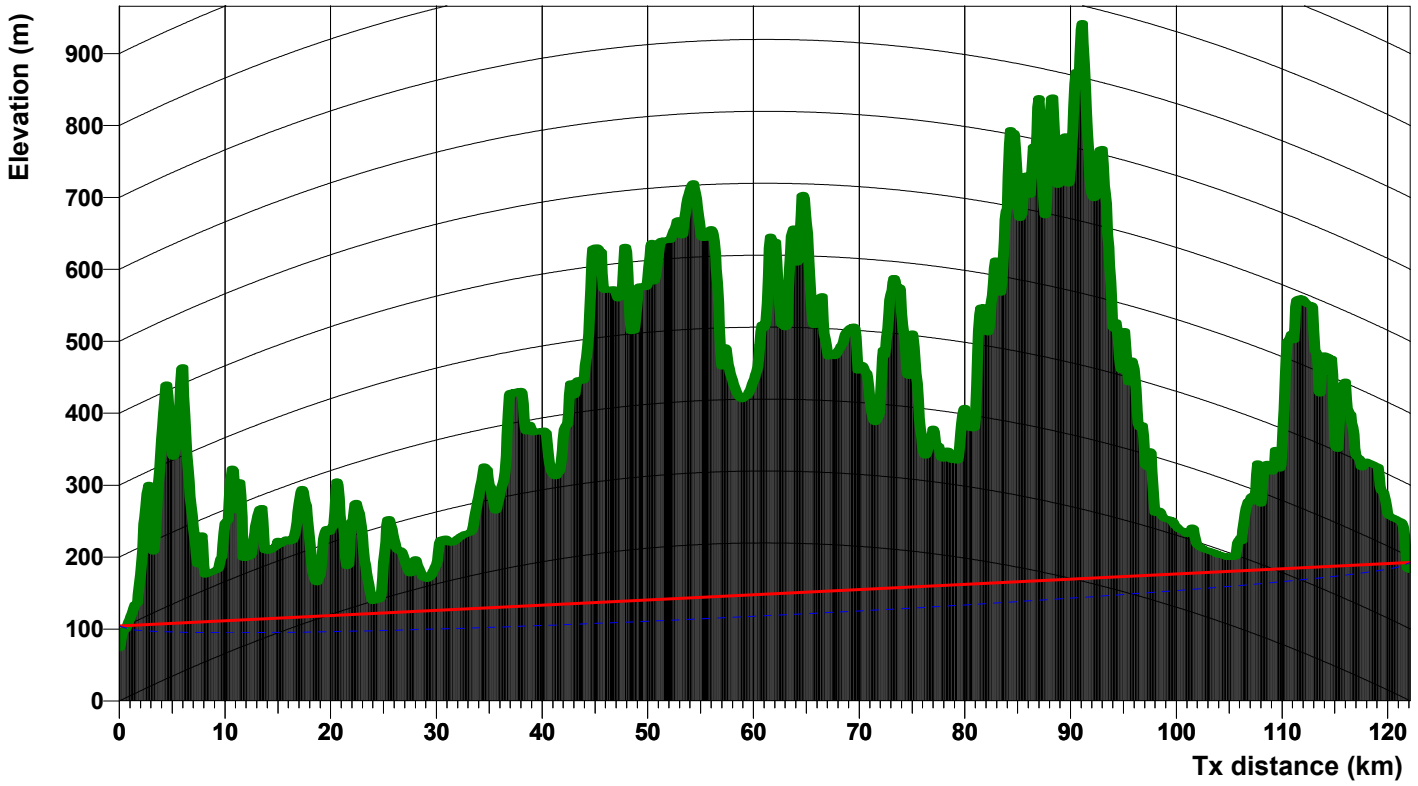
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 184.5 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -308.32 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT007 30 May 2005

Link Study: trn/CT008-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT008
Name: CT008
Location:
N37°50'33.65" W122°14'33.34"
Site elevation: 73.2 m
Antenna height: 31.0 m
Pointing azimuth: 3.9 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT008 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 122.12 km
Number of obstacles: 0
Excess path loss: 114.62 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 260.12 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

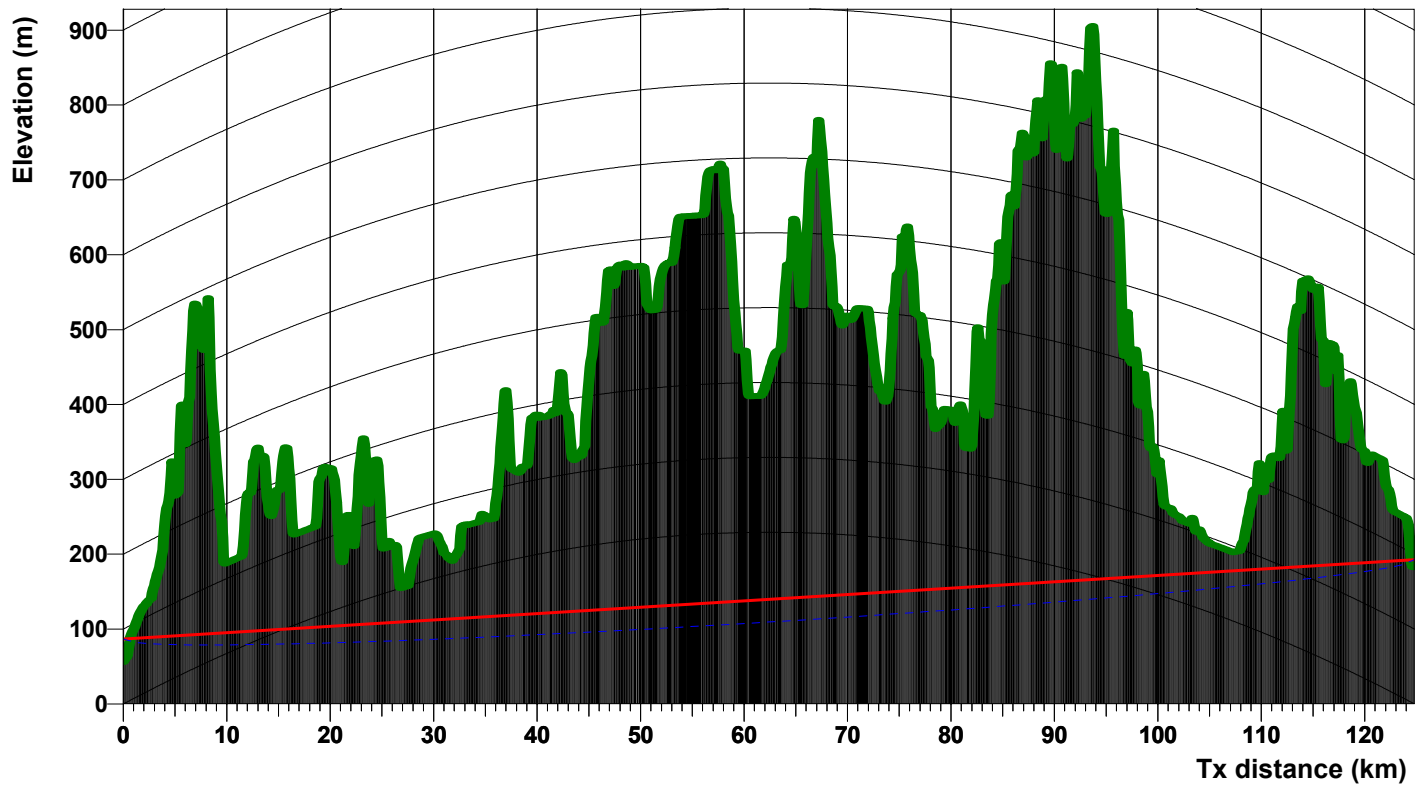
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 183.9 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -309.25 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT008 30 May 2005

Link Study: trn/CT009-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT009
Name: CT009
Location:
N37°49'05.76" W122°14'03.67"
Site elevation: 56.0 m
Antenna height: 31.0 m
Pointing azimuth: 3.5 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT009 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 124.78 km
Number of obstacles: 0
Excess path loss: 115.37 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 261.05 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

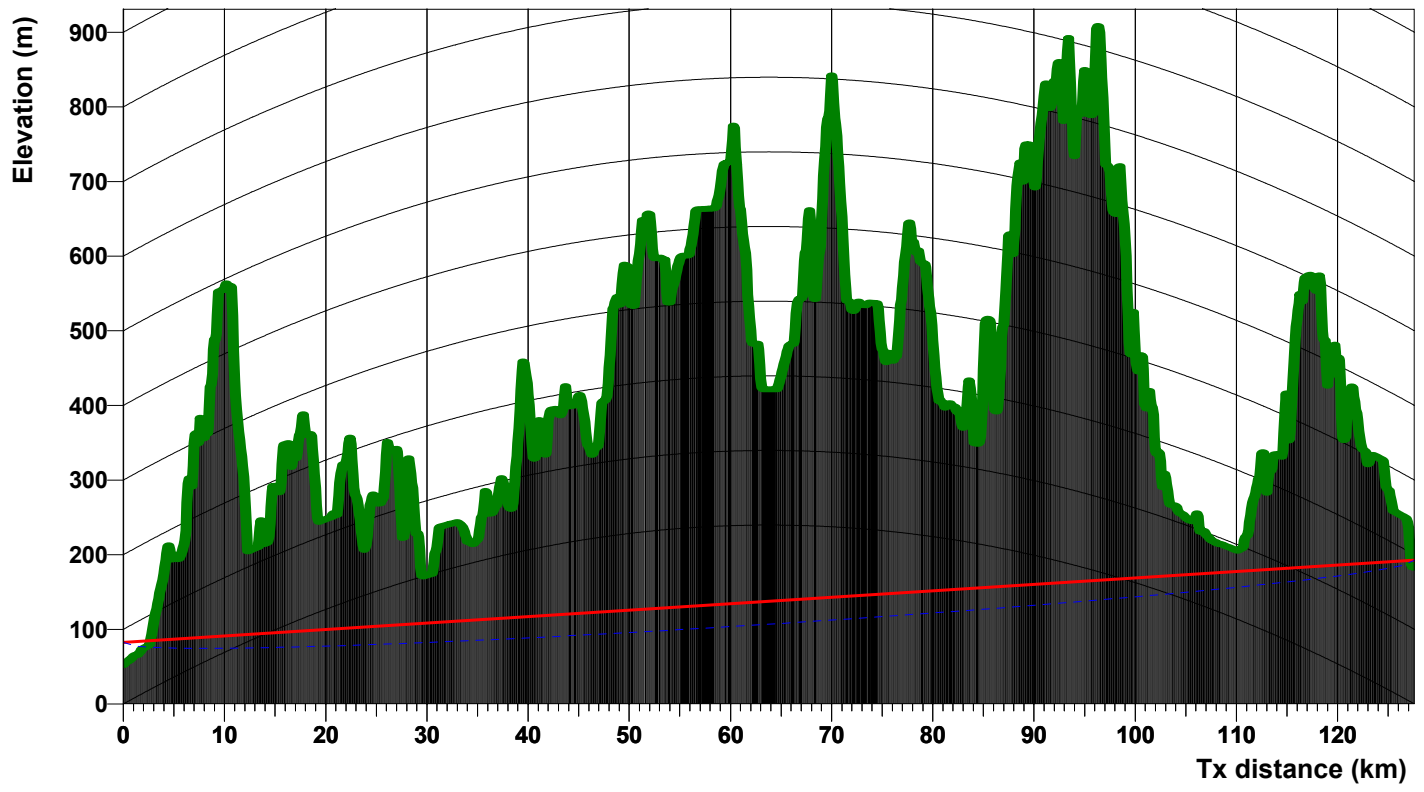
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 183.5 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -304.17 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT009 30 May 2005

Link Study: trn/CT010-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT010
Name: CT010
Location:
N37°47'35.12" W122°13'53.68"
Site elevation: 51.6 m
Antenna height: 31.0 m
Pointing azimuth: 3.3 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT010 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 127.56 km
Number of obstacles: 0
Excess path loss: 115.42 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 261.30 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 183.3 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -304.41 dBW

Notes

San Francisco
CT to Salt Creek

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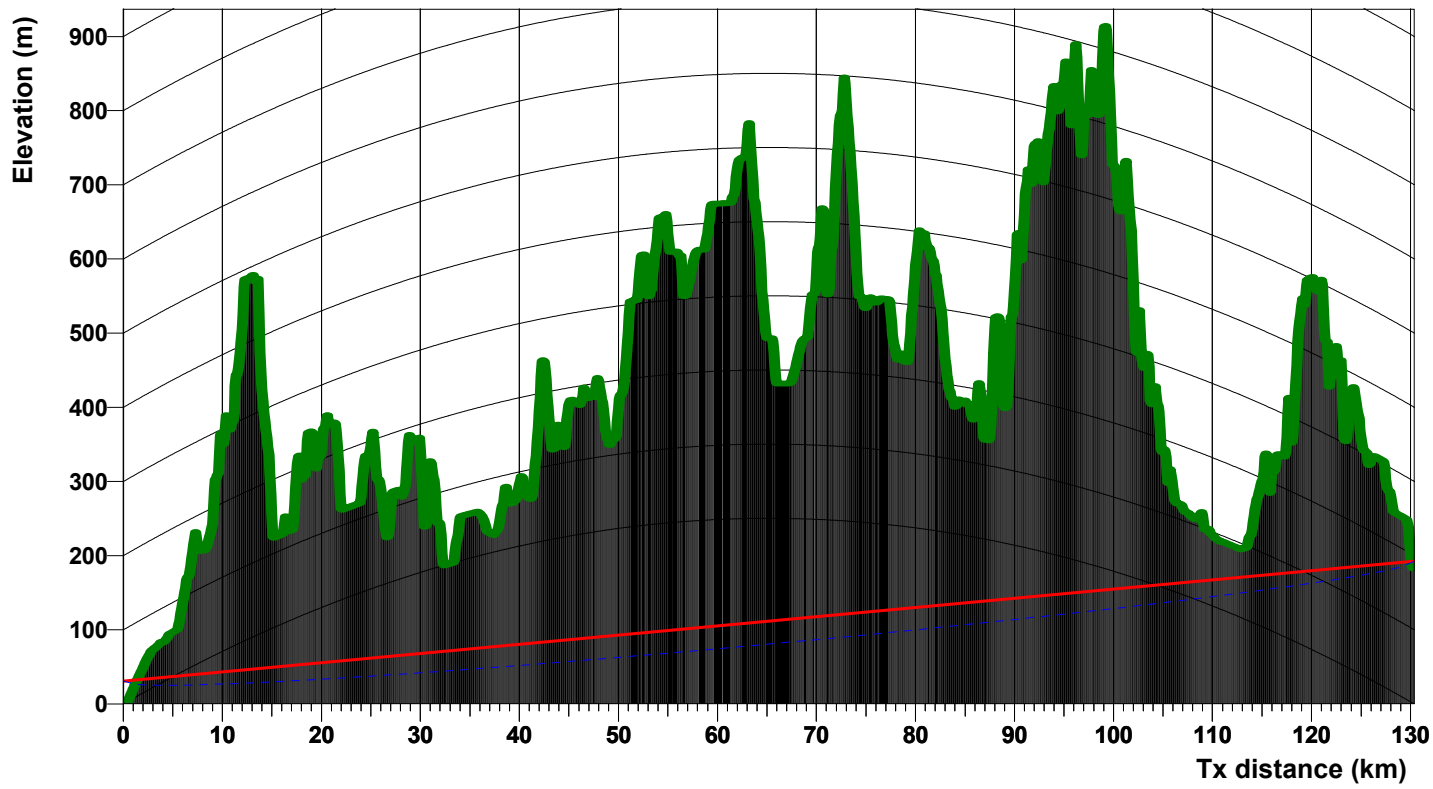
Link Study: trn/CT011-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT011
Name: CT011
Location:
N37°46'04.48" W122°14'03.67"
Site elevation: 0.0 m
Antenna height: 31.0 m
Pointing azimuth: 3.3 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT011 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 130.36 km
Number of obstacles: 0
Excess path loss: 111.54 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 257.60 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 183.3 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -300.71 dBW

Notes

San Francisco
CT to Salt Creek

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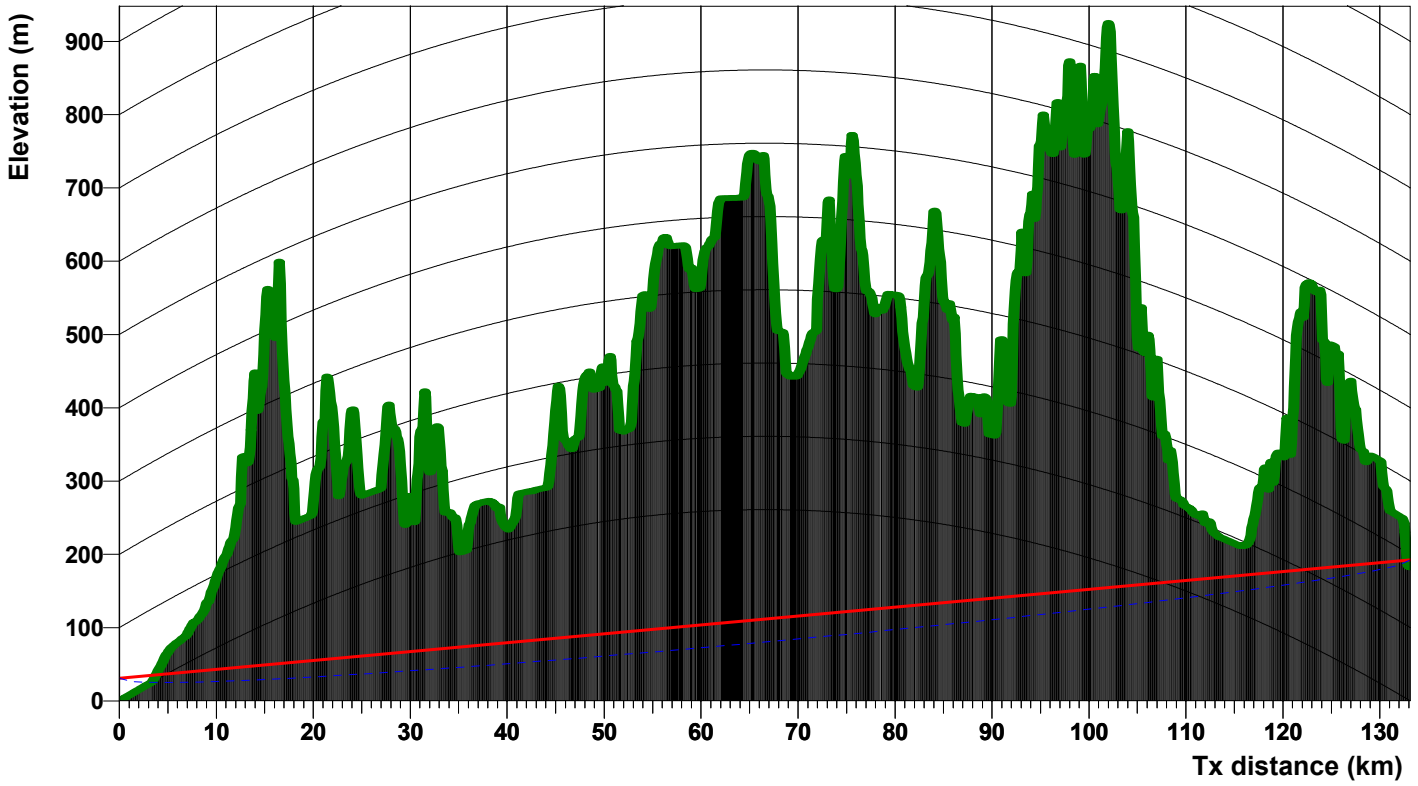
Link Study: trn/CT012-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT012
Name: CT012
Location:
N37°44'36.59" W122°14'33.34"
Site elevation: 0.0 m
Antenna height: 31.0 m
Pointing azimuth: 3.6 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT012 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 133.12 km
Number of obstacles: 0
Excess path loss: 110.12 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 256.37 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 183.6 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -299.48 dBW

Notes

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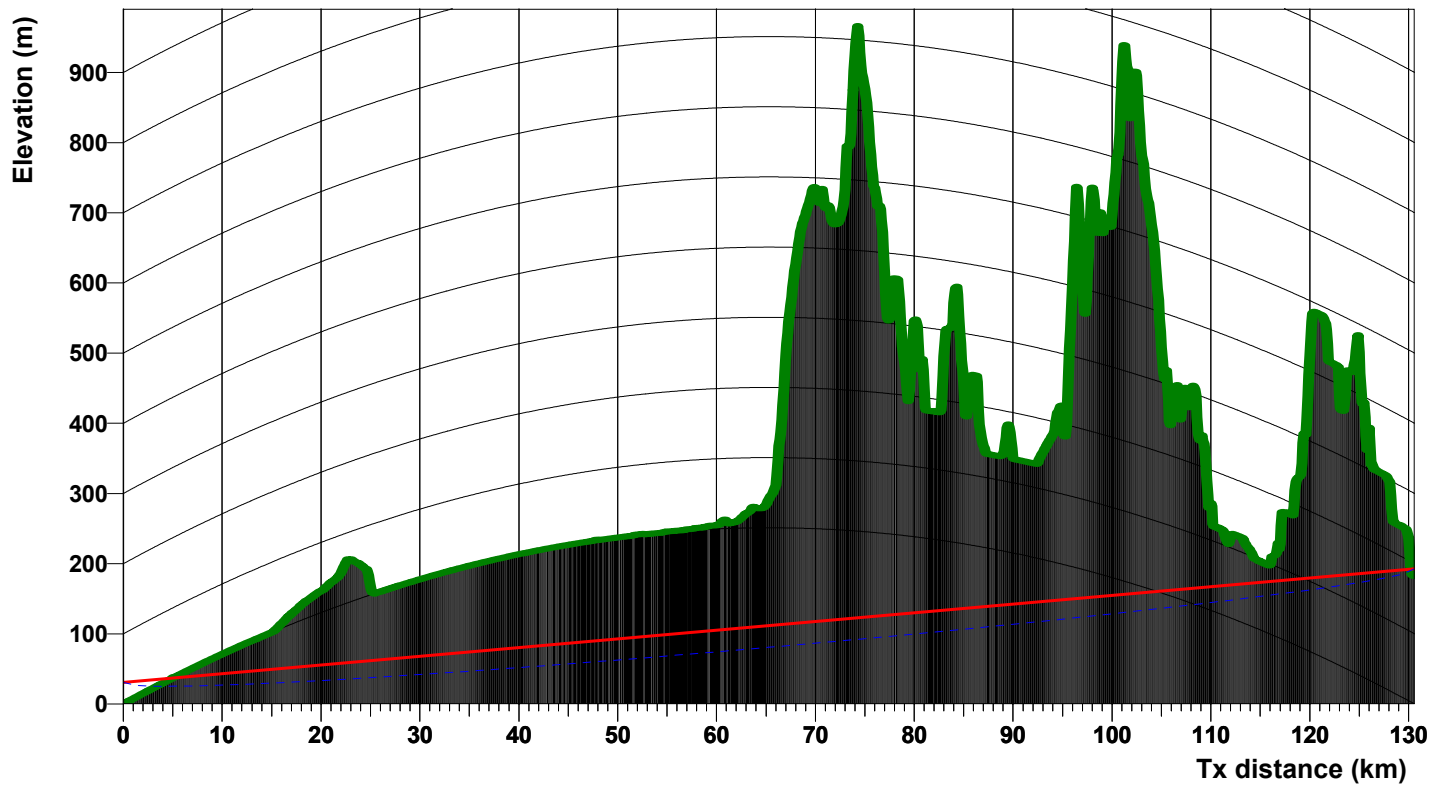
Link Study: trn/CT013-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT013
Name: CT013
Location:
N37°46'44.23" W122°23'00.36"
Site elevation: 0.0 m
Antenna height: 31.0 m
Pointing azimuth: 9.0 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT013 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 130.55 km
Number of obstacles: 0
Excess path loss: 103.84 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 249.91 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 189.0 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -293.03 dBW

Notes

San Francisco
CT to Salt Creek

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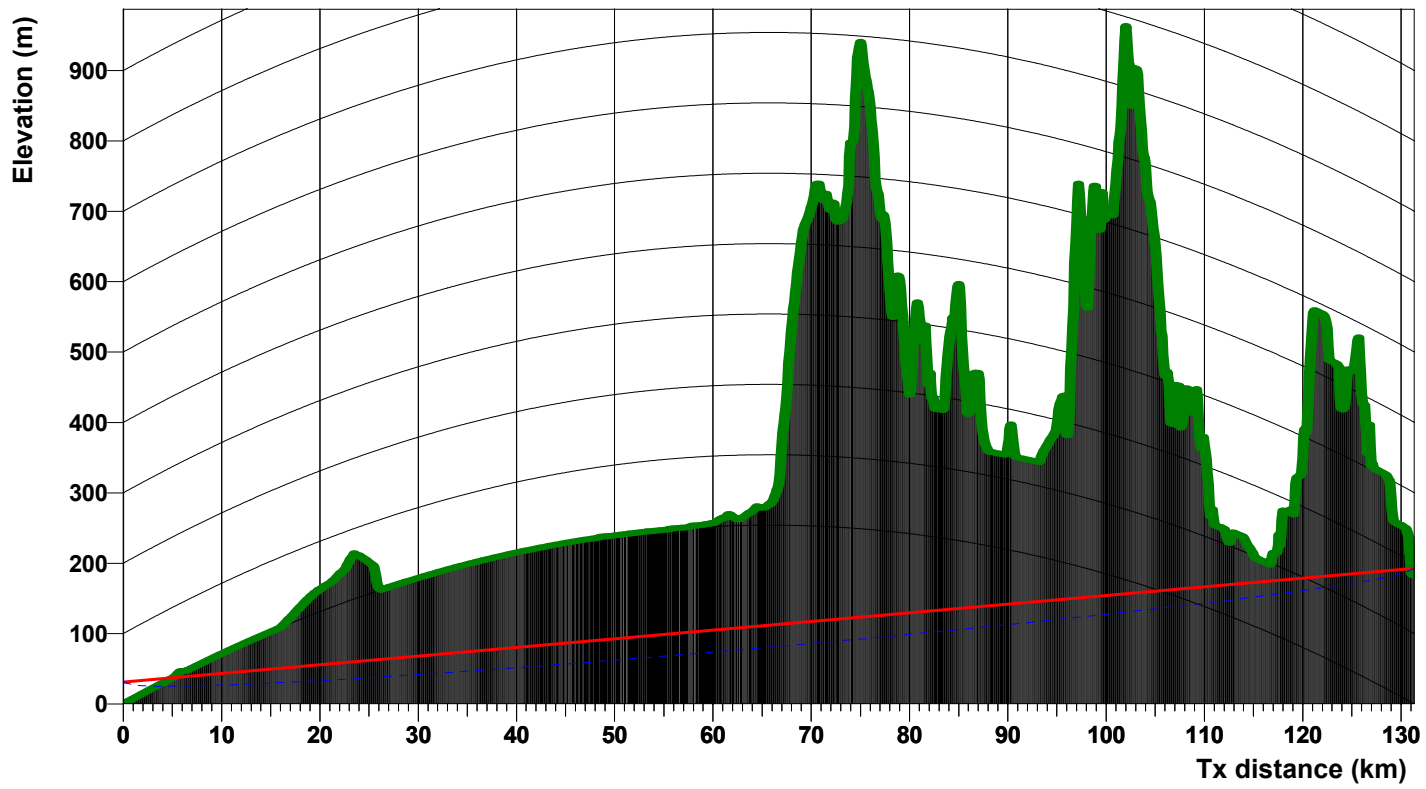
Link Study: trn/CT014-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT014
Name: CT014
Location:
N37°46'17.95" W122°22'55.45"
Site elevation: 0.0 m
Antenna height: 31.0 m
Pointing azimuth: 8.9 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT014 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 131.34 km
Number of obstacles: 0
Excess path loss: 102.67 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 248.79 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 188.9 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -288.65 dBW

Notes

San Francisco
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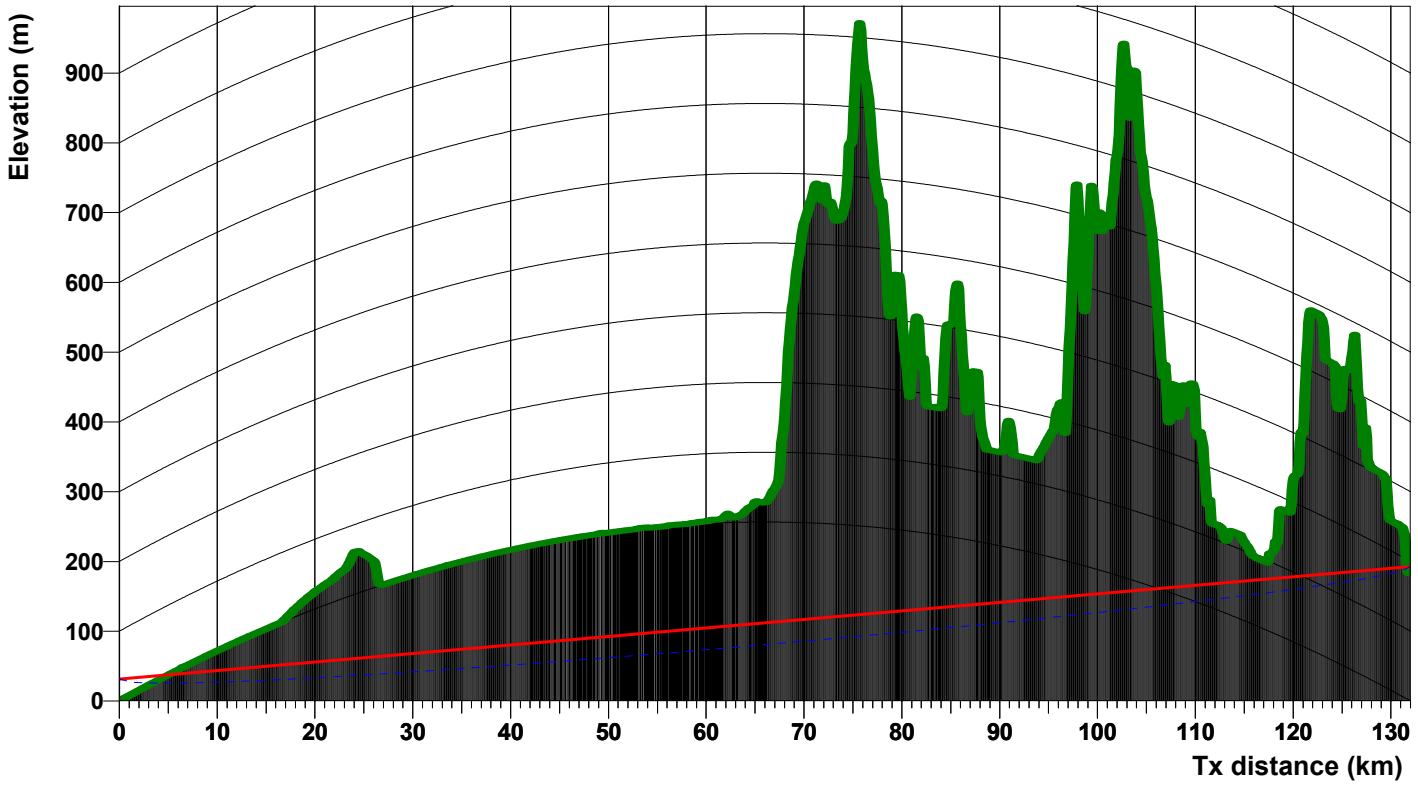
Link Study: trn/CT015-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT015
Name: CT015
Location:
N37°45'59.15" W122°23'09.97"
Site elevation: 0.3 m
Antenna height: 31.0 m
Pointing azimuth: 9.0 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT015 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 131.96 km
Number of obstacles: 0
Excess path loss: 104.47 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 250.64 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 189.0 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -290.49 dBW

Notes

San Francisco
CT to Salt Creek

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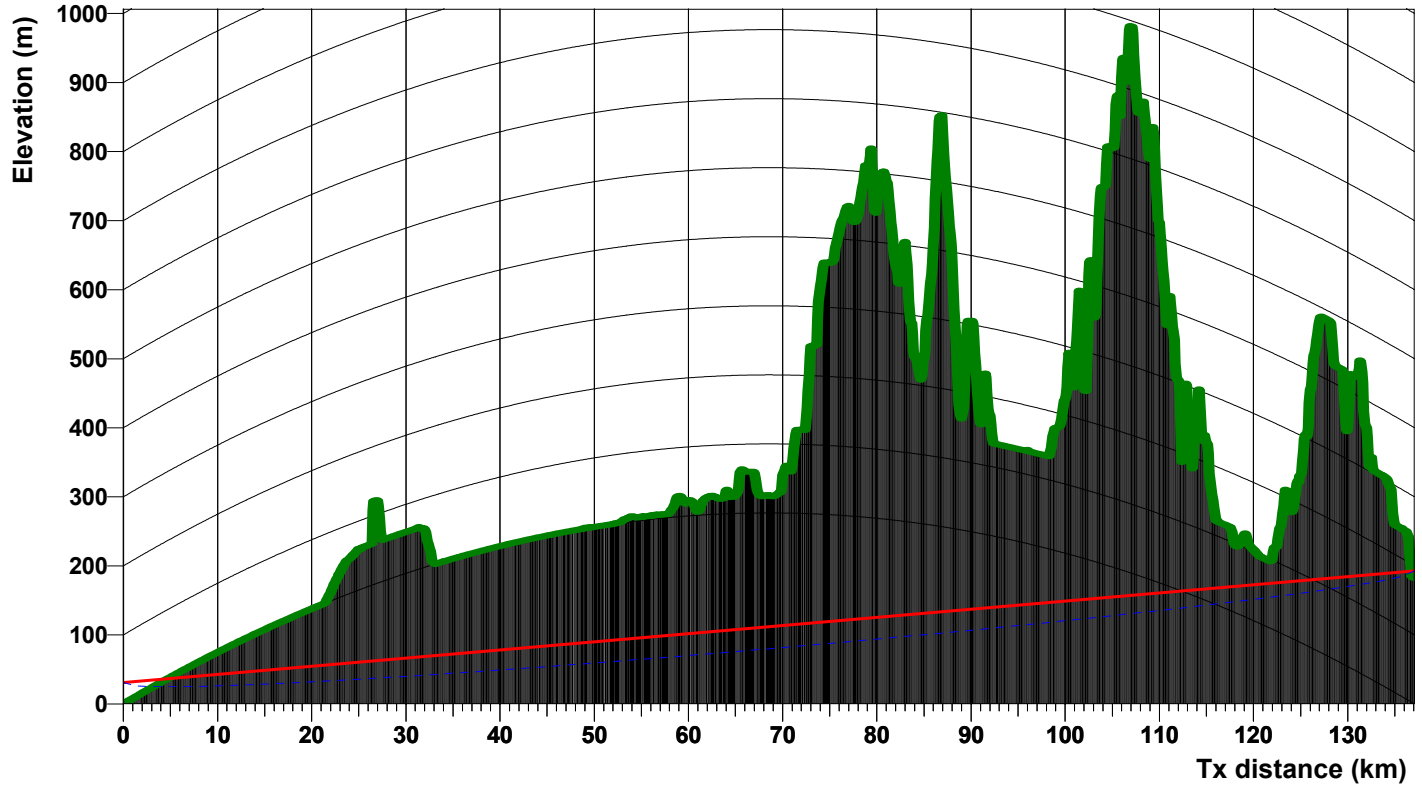
Link Study: trn/CT016-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT016
Name: CT016
Location:
N37°43'01.62" W122°21'32.47"
Site elevation: 0.0 m
Antenna height: 31.0 m
Pointing azimuth: 7.7 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT016 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 137.04 km
Number of obstacles: 0
Excess path loss: 95.48 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 241.98 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 187.7 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -273.35 dBW

Notes

San Francisco
CT to Salt Creek

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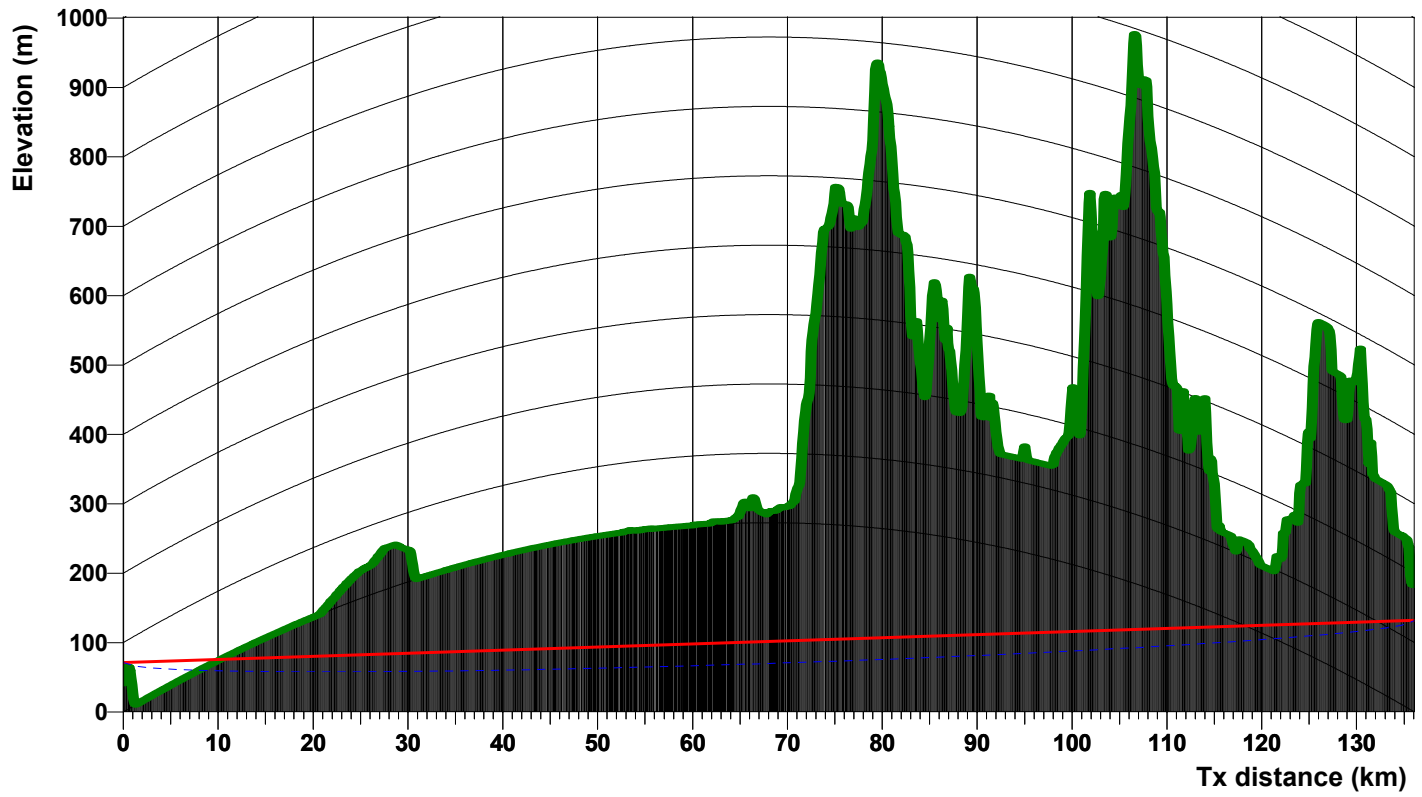
Link Study: trn/CT017-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT017
Name: CT017
Location:
N37°43'44.58" W122°23'05.70"
Site elevation: 40.5 m
Antenna height: 31.0 m
Pointing azimuth: 8.7 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT017 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 136.05 km
Number of obstacles: 0
Excess path loss: 103.10 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 249.53 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 121.9 m
Antenna height: 10.0 m
Pointing azimuth: 188.7 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -279.49 dBW

Notes

San Francisco
CT to Salt Creek

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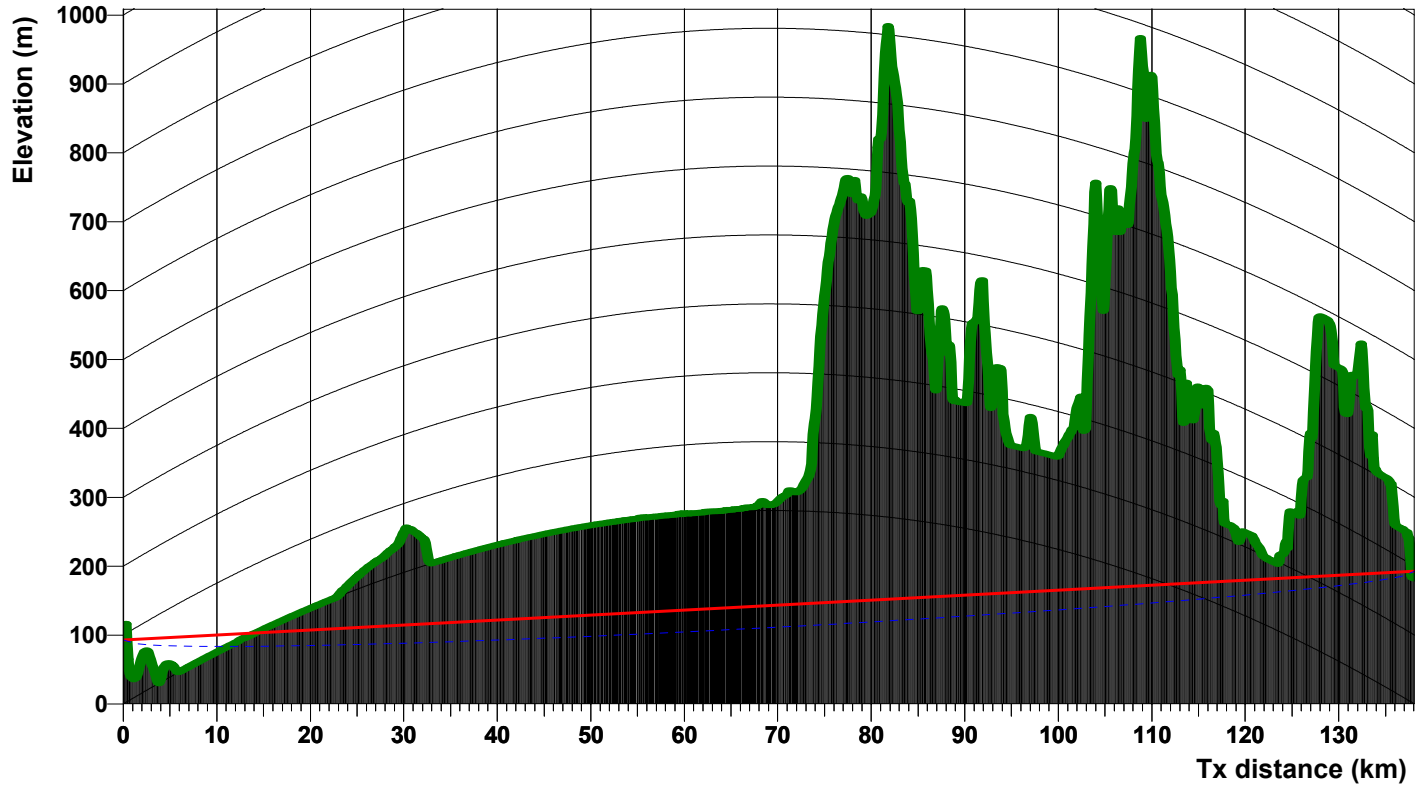
Link Study: trn/CT018-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT018
Name: CT018
Location:
N37°42'42.62" W122°23'46.45"
Site elevation: 61.9 m
Antenna height: 31.0 m
Pointing azimuth: 9.0 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT018 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 138.10 km
Number of obstacles: 0
Excess path loss: 105.65 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 252.21 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 189.0 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -272.18 dBW

Notes

San Francisco
CT to Salt Creek

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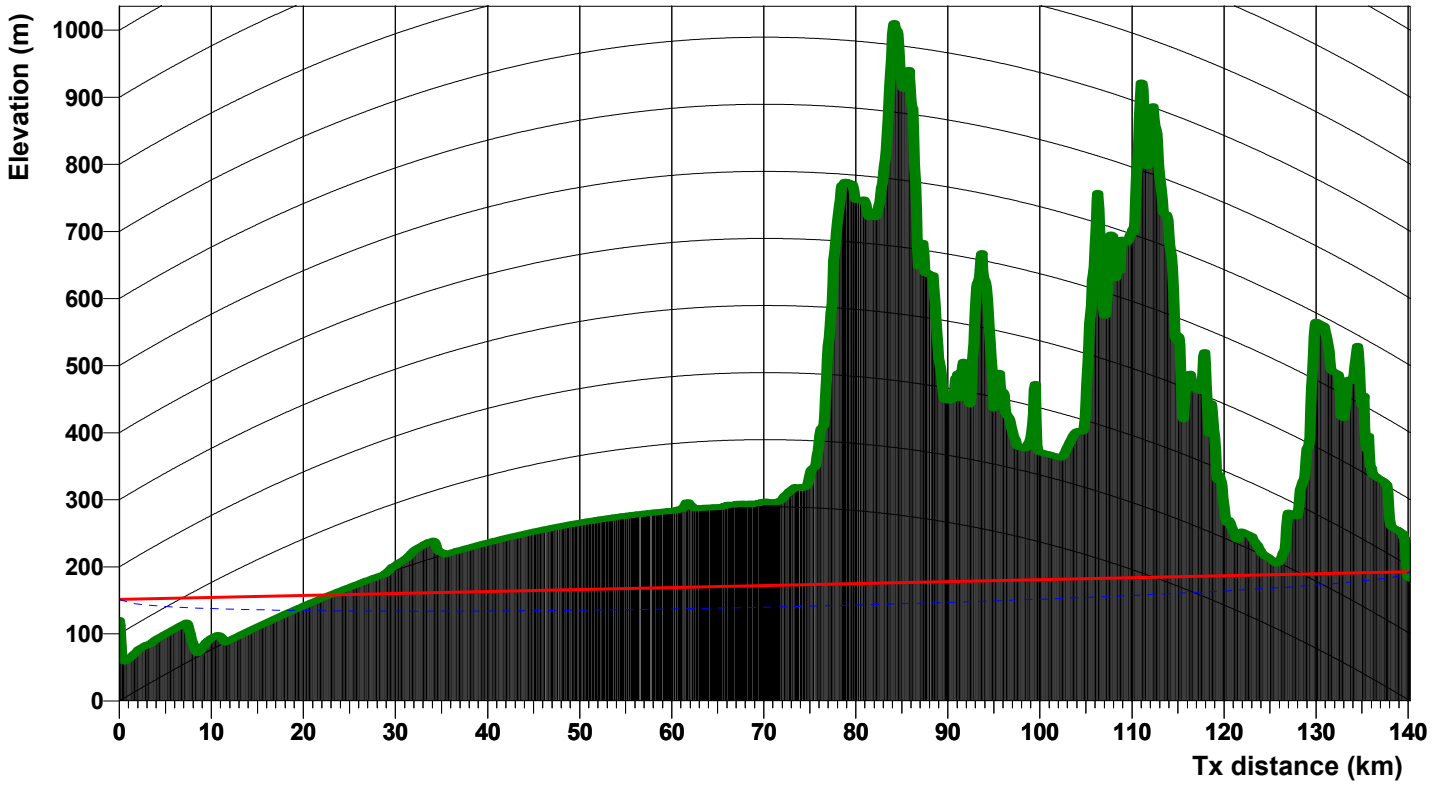
Link Study: trn/CT019-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT019
Name: CT019
Location:
N37°41'41.73" W122°24'51.44"
Site elevation: 120.5 m
Antenna height: 31.0 m
Pointing azimuth: 9.5 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT019 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 140.21 km
Number of obstacles: 0
Excess path loss: 101.56 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 248.25 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

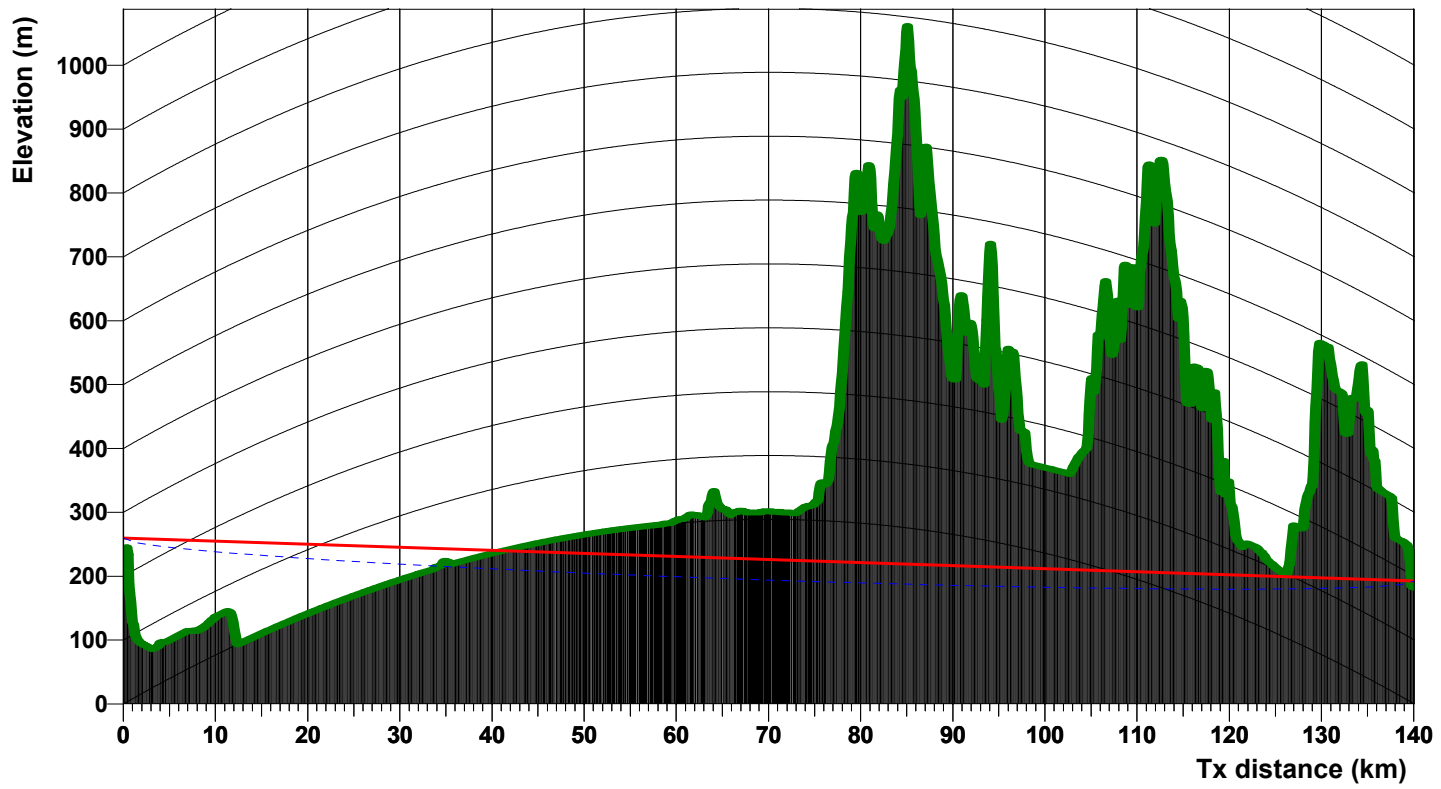
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 189.5 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -260.52 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT019 30 May 2005

Link Study: trn/CT020-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT020
Name: CT020
Location:
N37°41'55.84" W122°26'06.82"
Site elevation: 228.8 m
Antenna height: 31.0 m
Pointing azimuth: 10.3 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT020 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 140.09 km
Number of obstacles: 0
Excess path loss: 104.31 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 250.99 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

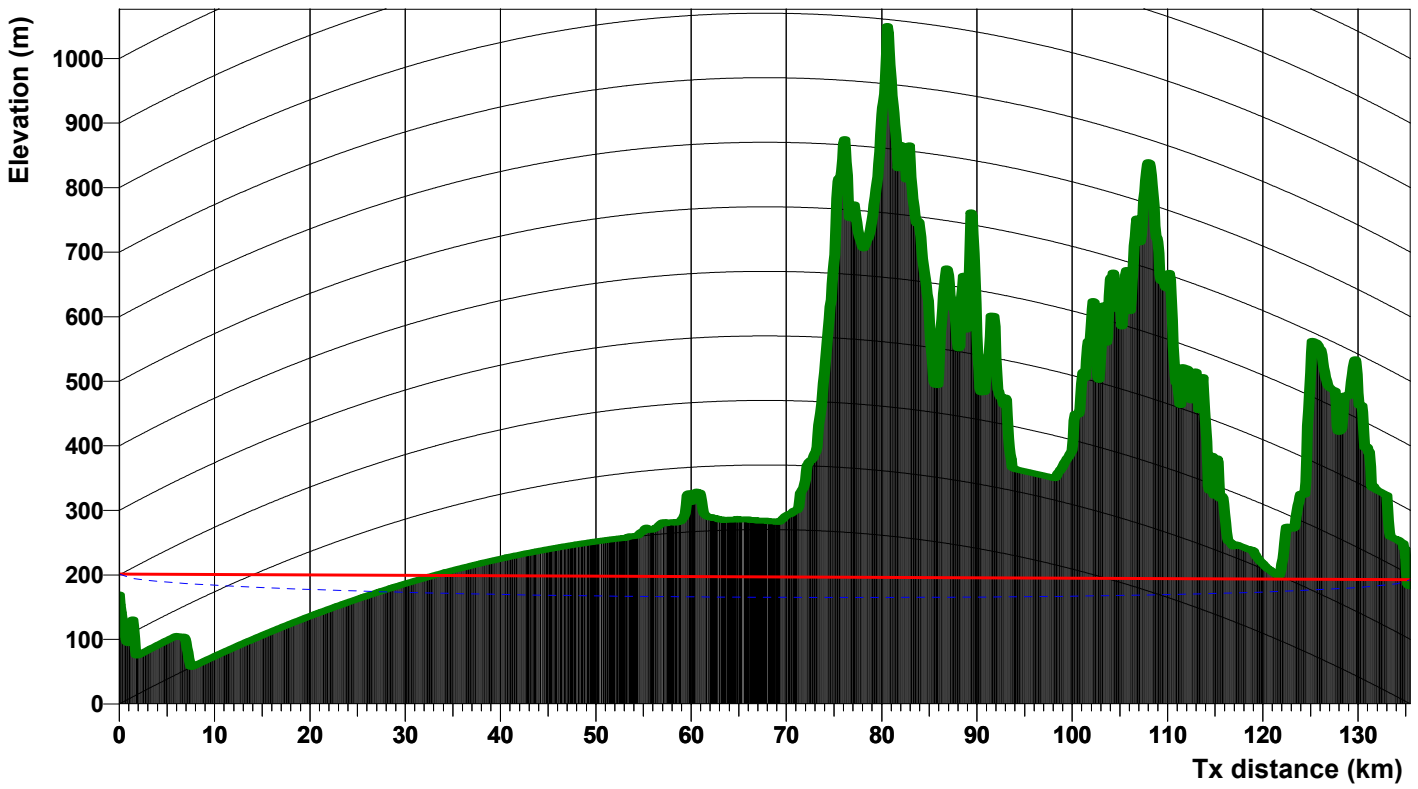
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 190.3 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -260.80 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT020 30 May 2005

Link Study: trn/CT021-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT021
Name: CT021
Location:
N37°44'29.21" W122°26'16.70"
Site elevation: 170.2 m
Antenna height: 31.0 m
Pointing azimuth: 10.7 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT021 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 135.48 km
Number of obstacles: 0
Excess path loss: 104.07 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 250.47 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

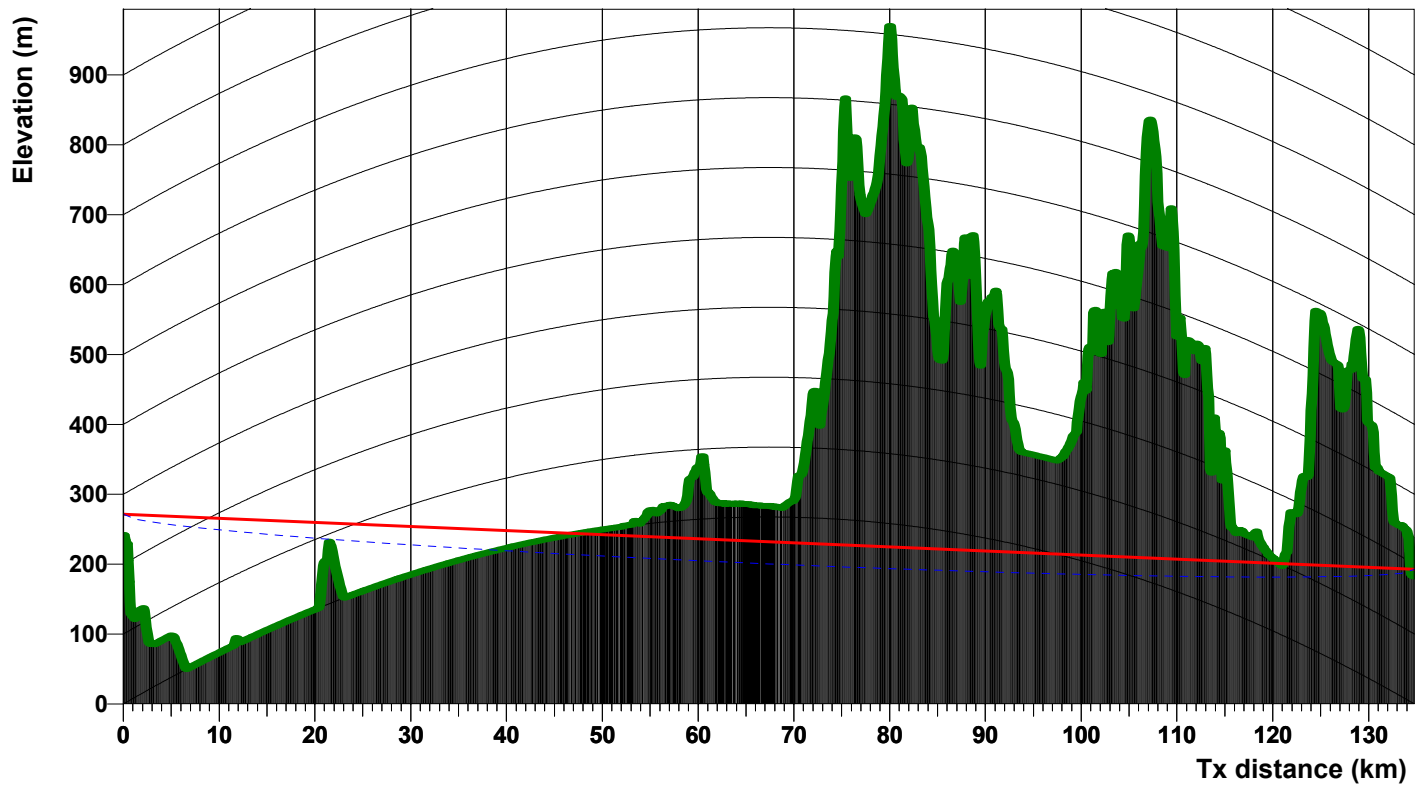
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 190.7 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -262.20 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT021 30 May 2005

Link Study: trn/CT022-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT022
Name: CT022
Location:
N37°44'57.80" W122°26'45.89"
Site elevation: 240.5 m
Antenna height: 31.0 m
Pointing azimuth: 11.1 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT022 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 134.75 km
Number of obstacles: 0
Excess path loss: 100.99 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 247.34 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

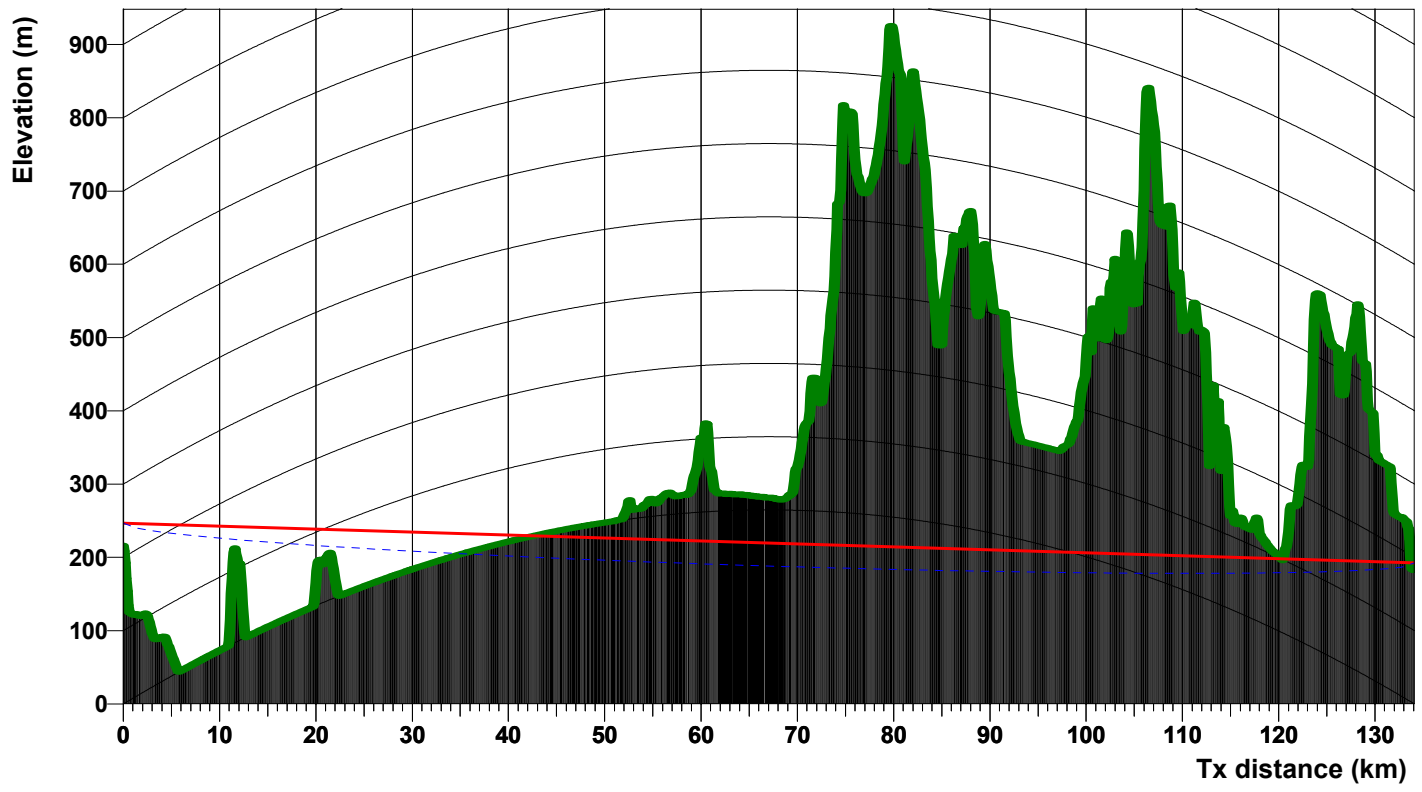
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 191.1 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -266.93 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT022 30 May 2005

Link Study: trn/CT023-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT023
Name: CT023
Location:
N37°45'23.96" W122°27'10.12"
Site elevation: 215.9 m
Antenna height: 31.0 m
Pointing azimuth: 11.4 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT023 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 134.07 km
Number of obstacles: 0
Excess path loss: 102.03 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 248.33 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

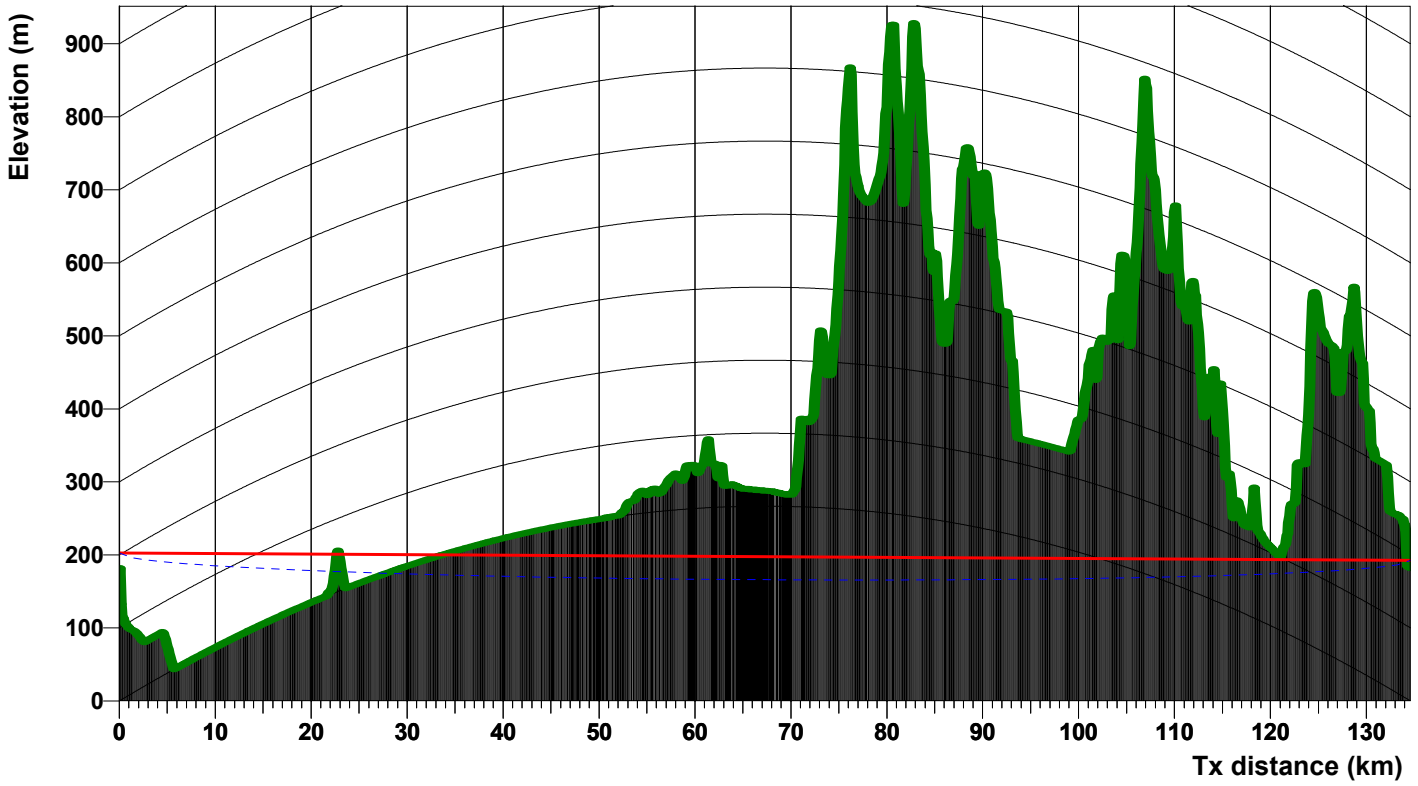
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 191.4 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -278.14 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT023 30 May 2005

Link Study: trn/CT024-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT024
Name: CT024
Location:
N37°45'17.55" W122°28'18.03"
Site elevation: 171.5 m
Antenna height: 31.0 m
Pointing azimuth: 12.0 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT024 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 134.60 km
Number of obstacles: 0
Excess path loss: 103.86 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 250.20 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

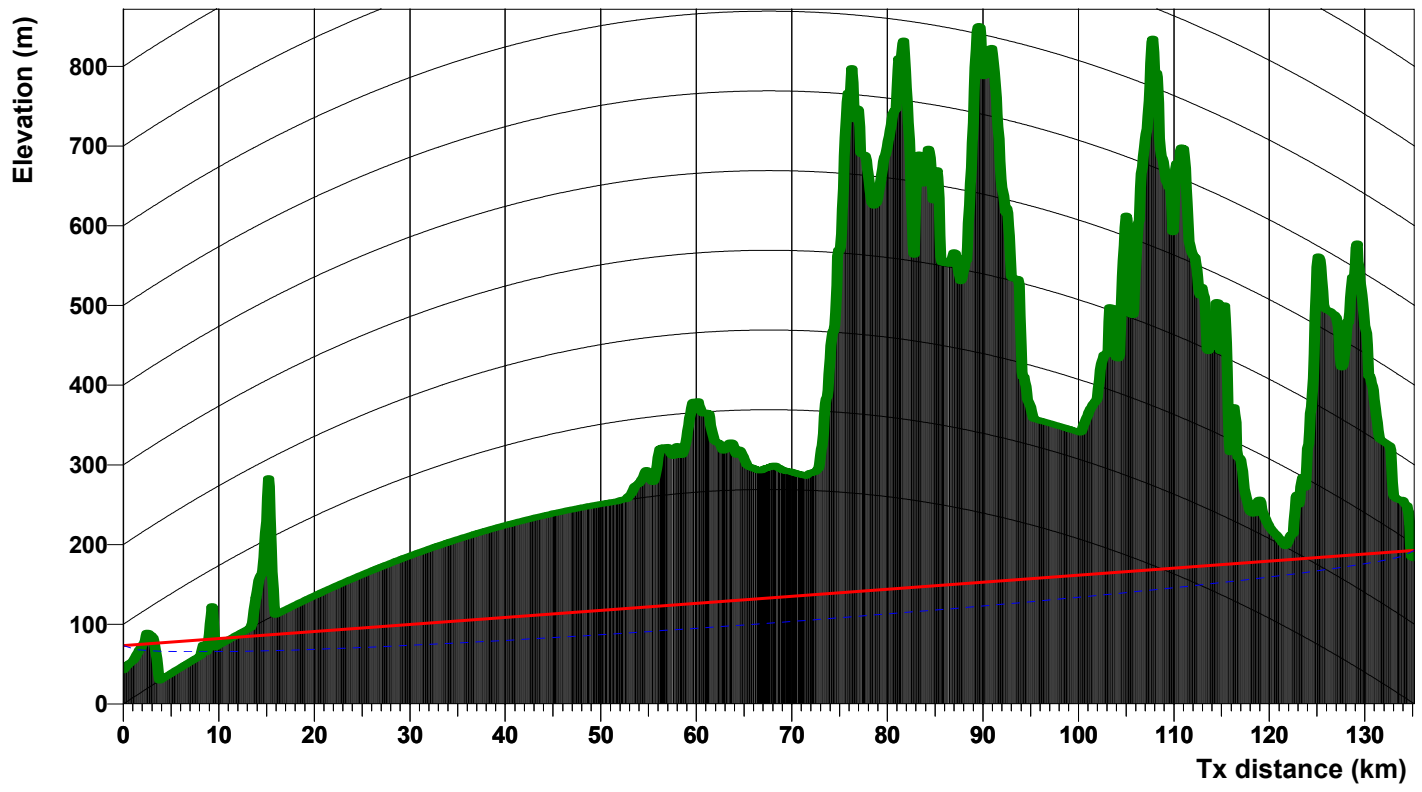
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 192.0 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -281.05 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT024 30 May 2005

Link Study: trn/CT025-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT025
Name: CT025
Location:
N37°45'15.75" W122°29'55.63"
Site elevation: 42.4 m
Antenna height: 31.0 m
Pointing azimuth: 13.0 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT025 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 135.17 km
Number of obstacles: 0
Excess path loss: 98.65 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 245.02 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

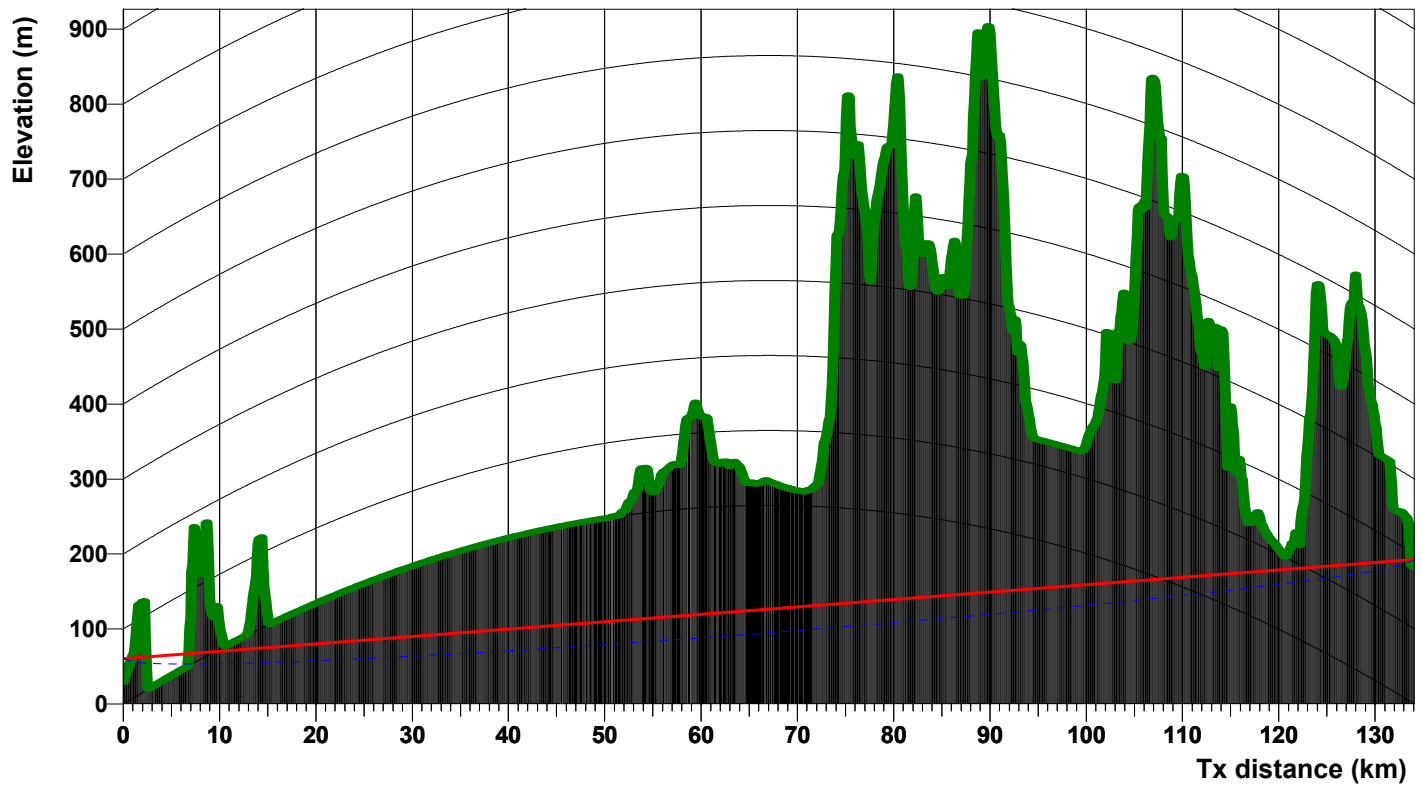
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 193.0 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -284.41 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT025 30 May 2005

Link Study: trn/CT026-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT026
Name: CT026
Location:
N37°45'58.71" W122°30'25.21"
Site elevation: 29.3 m
Antenna height: 31.0 m
Pointing azimuth: 13.4 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT026 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 134.05 km
Number of obstacles: 0
Excess path loss: 103.31 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 249.61 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

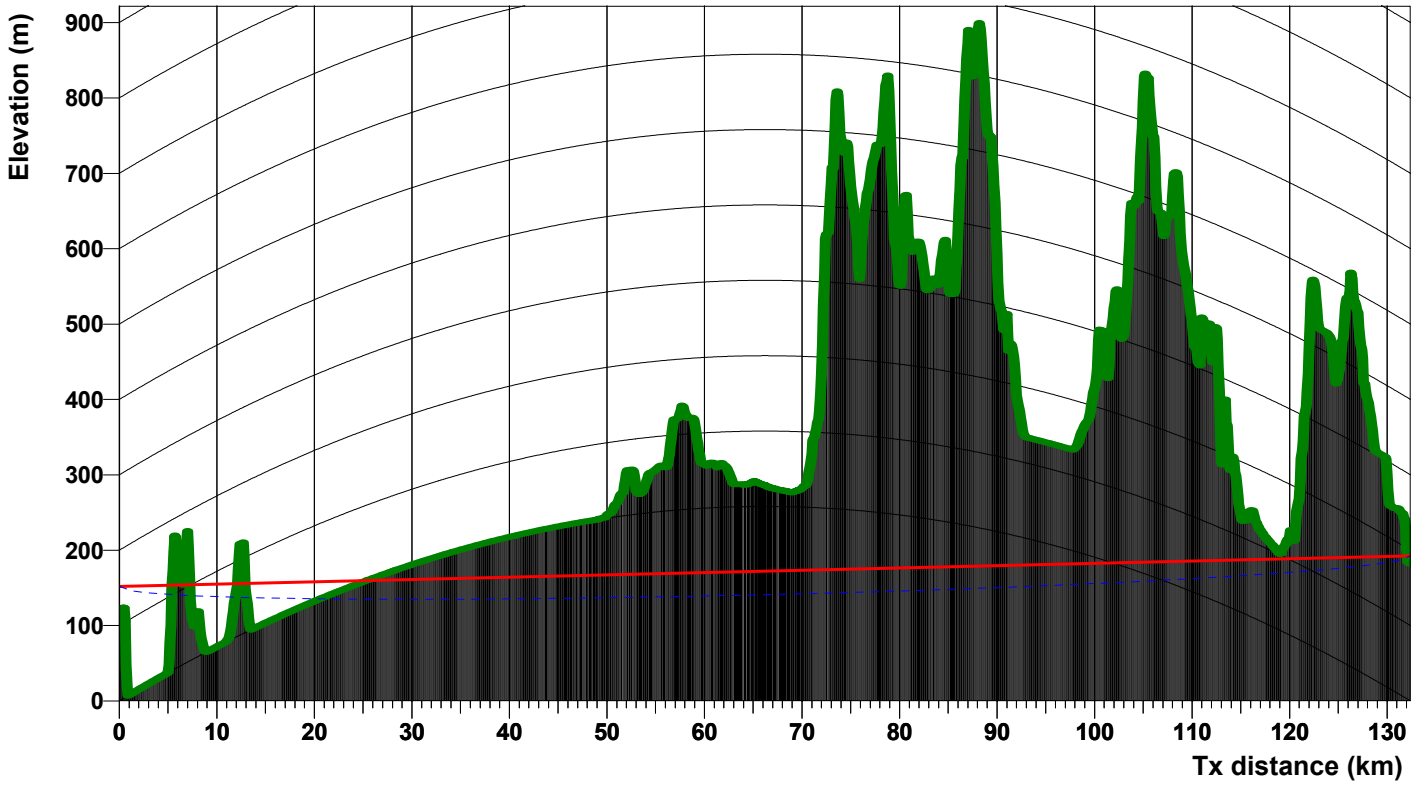
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 193.4 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -289.00 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT026 30 May 2005

Link Study: trn/CT027-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT027
Name: CT027
Location:
N37°46'50.80" W122°30'08.20"
Site elevation: 120.9 m
Antenna height: 31.0 m
Pointing azimuth: 13.4 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT027 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 132.39 km
Number of obstacles: 0
Excess path loss: 108.28 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 254.47 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

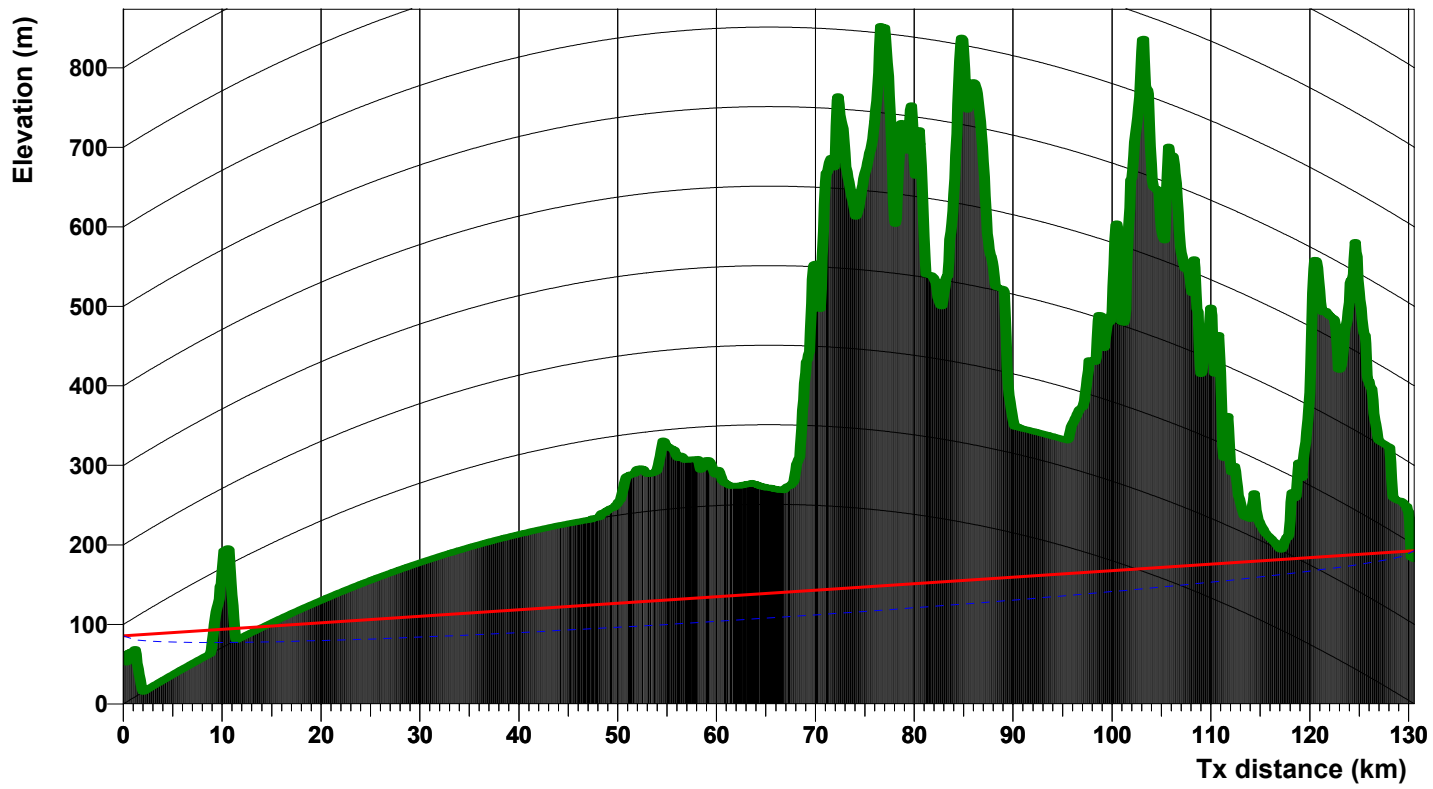
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 193.4 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -296.36 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT027 30 May 2005

Link Study: trn/CT028-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT028
Name: CT028
Location:
N37°47'35.12" W122°28'46.26"
Site elevation: 54.7 m
Antenna height: 31.0 m
Pointing azimuth: 12.7 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT028 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 130.60 km
Number of obstacles: 0
Excess path loss: 102.04 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 248.11 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

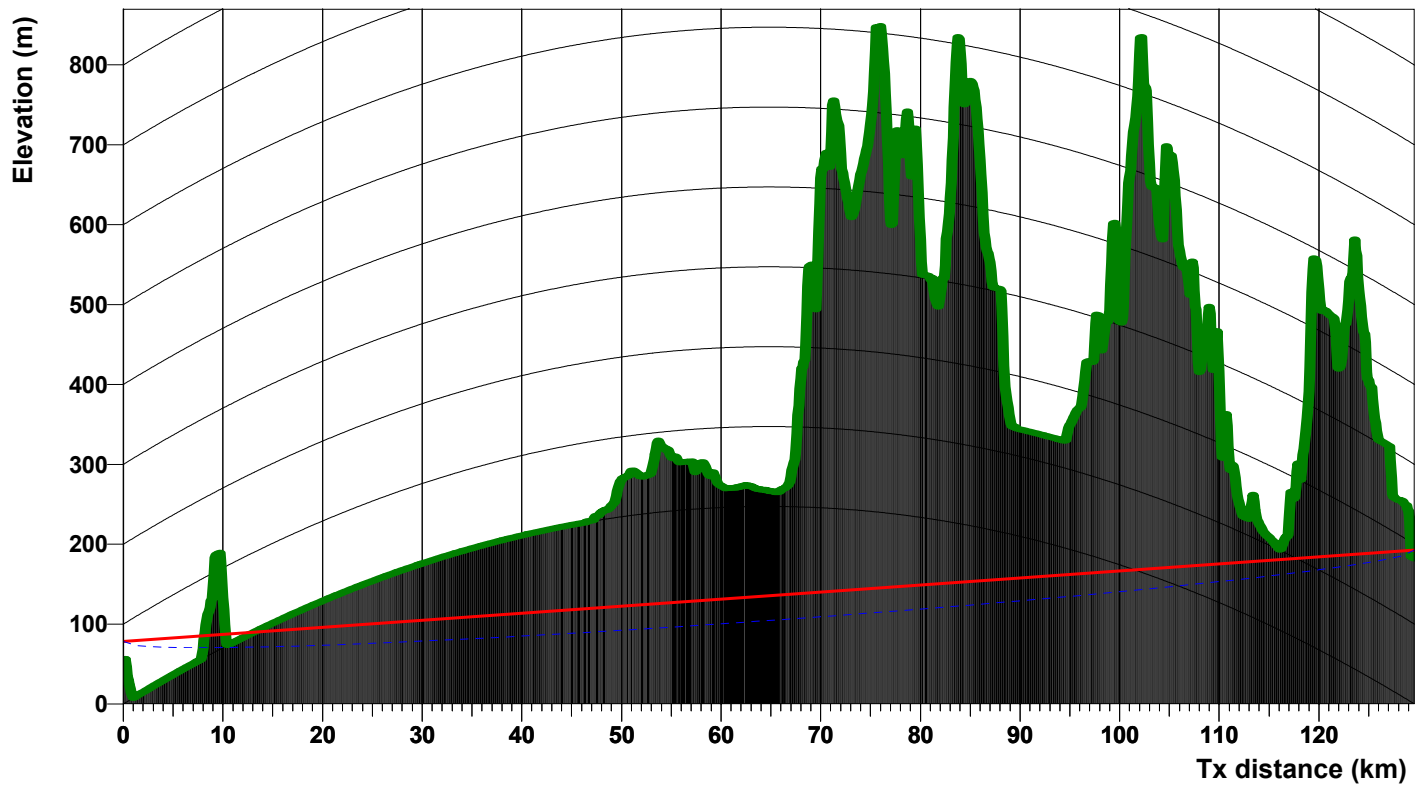
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 192.7 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -290.91 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT028 30 May 2005

Link Study: trn/CT029-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT029
Name: CT029
Location:
N37°48'07.02" W122°28'39.46"
Site elevation: 47.3 m
Antenna height: 31.0 m
Pointing azimuth: 12.8 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT029 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 129.61 km
Number of obstacles: 0
Excess path loss: 104.50 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 250.51 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

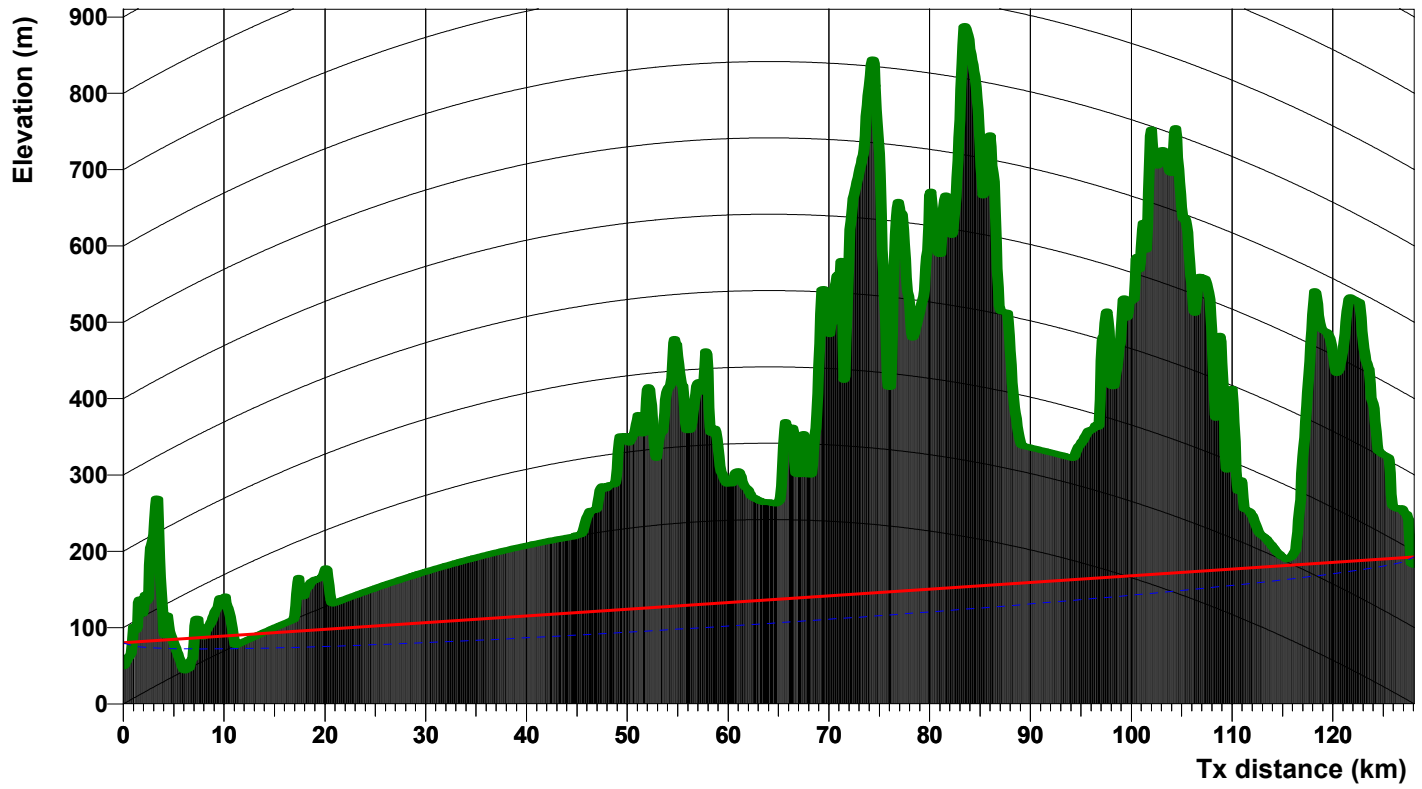
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 192.8 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -293.31 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT029 30 May 2005

Link Study: trn/CT030-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT030
Name: CT030
Location:
N37°49'34.56" W122°31'44.94"
Site elevation: 49.1 m
Antenna height: 31.0 m
Pointing azimuth: 15.0 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT030 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 128.07 km
Number of obstacles: 0
Excess path loss: 110.95 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 256.85 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

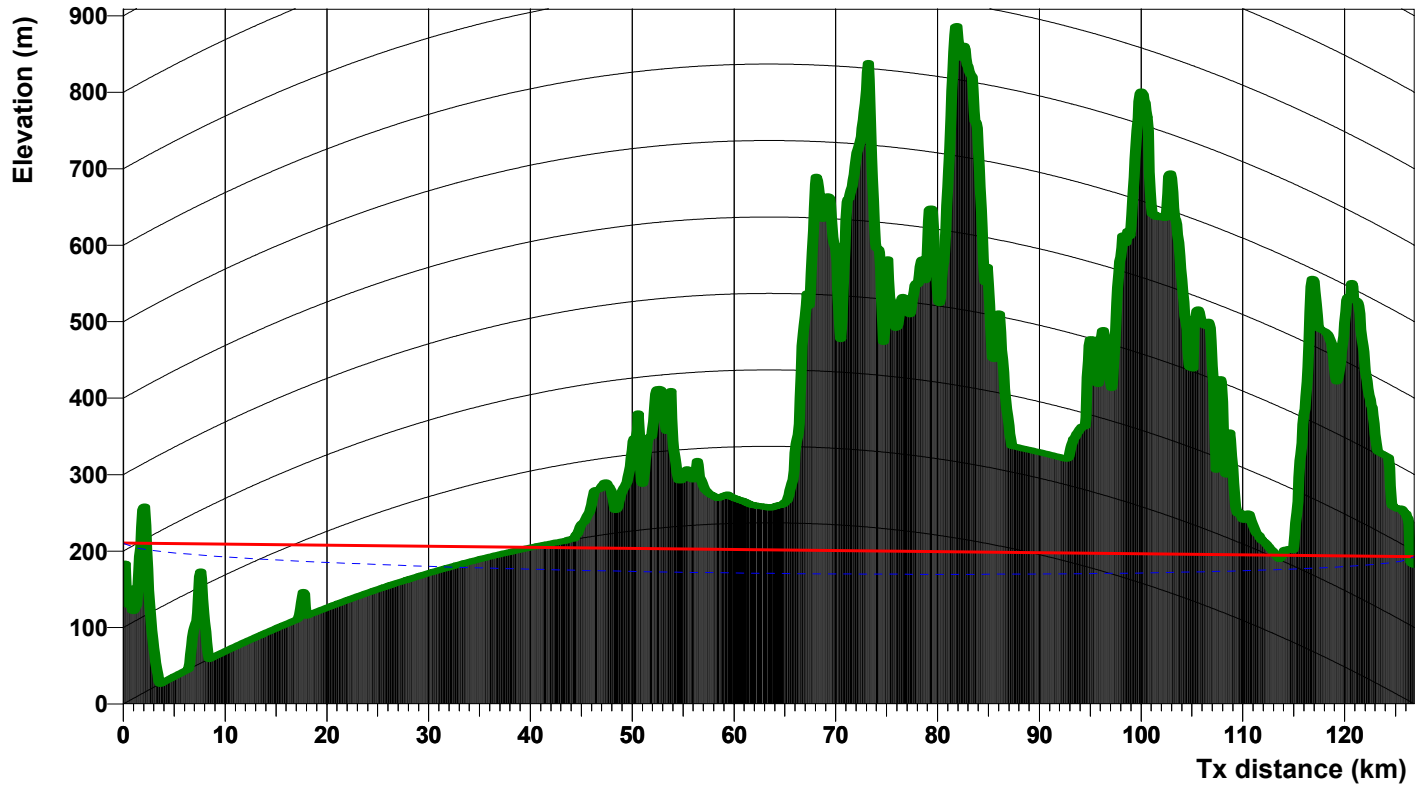
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 195.0 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -299.35 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT030 30 May 2005

Link Study: trn/CT031-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT031
Name: CT031
Location:
N37°49'53.70" W122°29'53.92"
Site elevation: 179.3 m
Antenna height: 31.0 m
Pointing azimuth: 13.9 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT031 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 126.82 km
Number of obstacles: 0
Excess path loss: 104.01 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 249.83 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

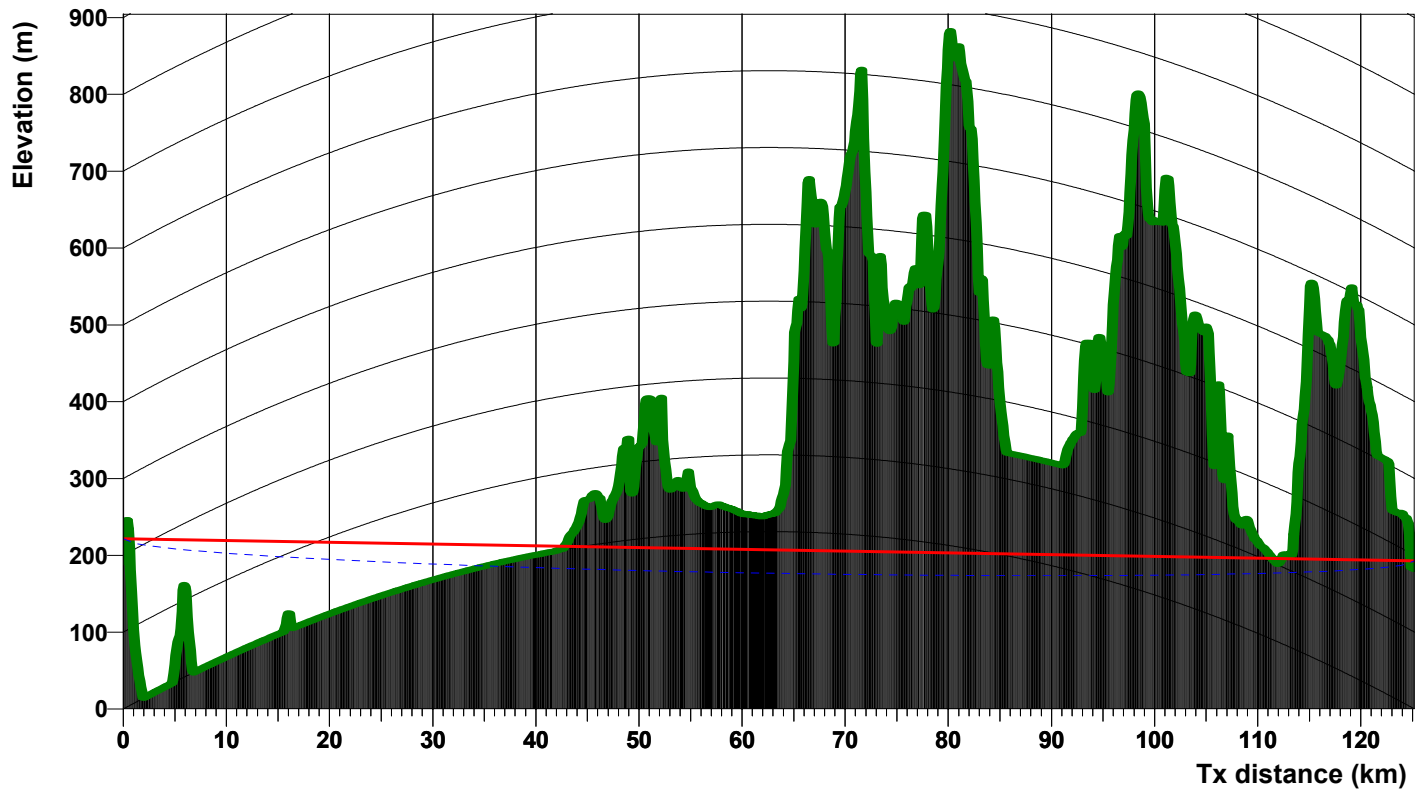
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 193.9 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -293.30 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT031 30 May 2005

Link Study: trn/CT032-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT032
Name: CT032
Location:
N37°50'44.70" W122°29'36.13"
Site elevation: 190.6 m
Antenna height: 31.0 m
Pointing azimuth: 13.9 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT032 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 125.19 km
Number of obstacles: 0
Excess path loss: 103.07 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 248.78 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

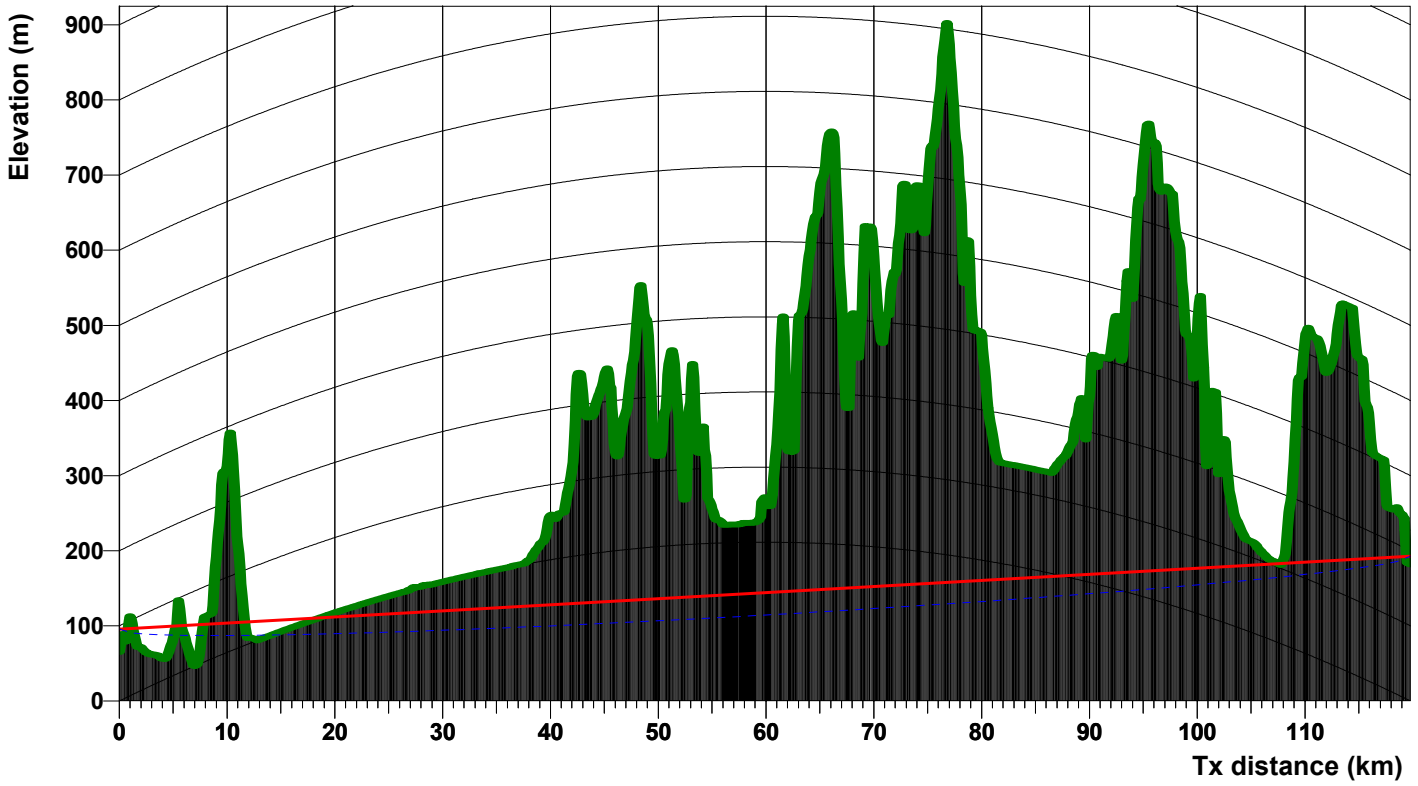
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 193.9 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -297.45 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT032 30 May 2005

Link Study: trn/CT033-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT033
Name: CT033
Location:
N37°54'14.99" W122°31'54.24"
Site elevation: 64.6 m
Antenna height: 31.0 m
Pointing azimuth: 16.1 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT033 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 119.79 km
Number of obstacles: 0
Excess path loss: 105.63 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 250.96 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

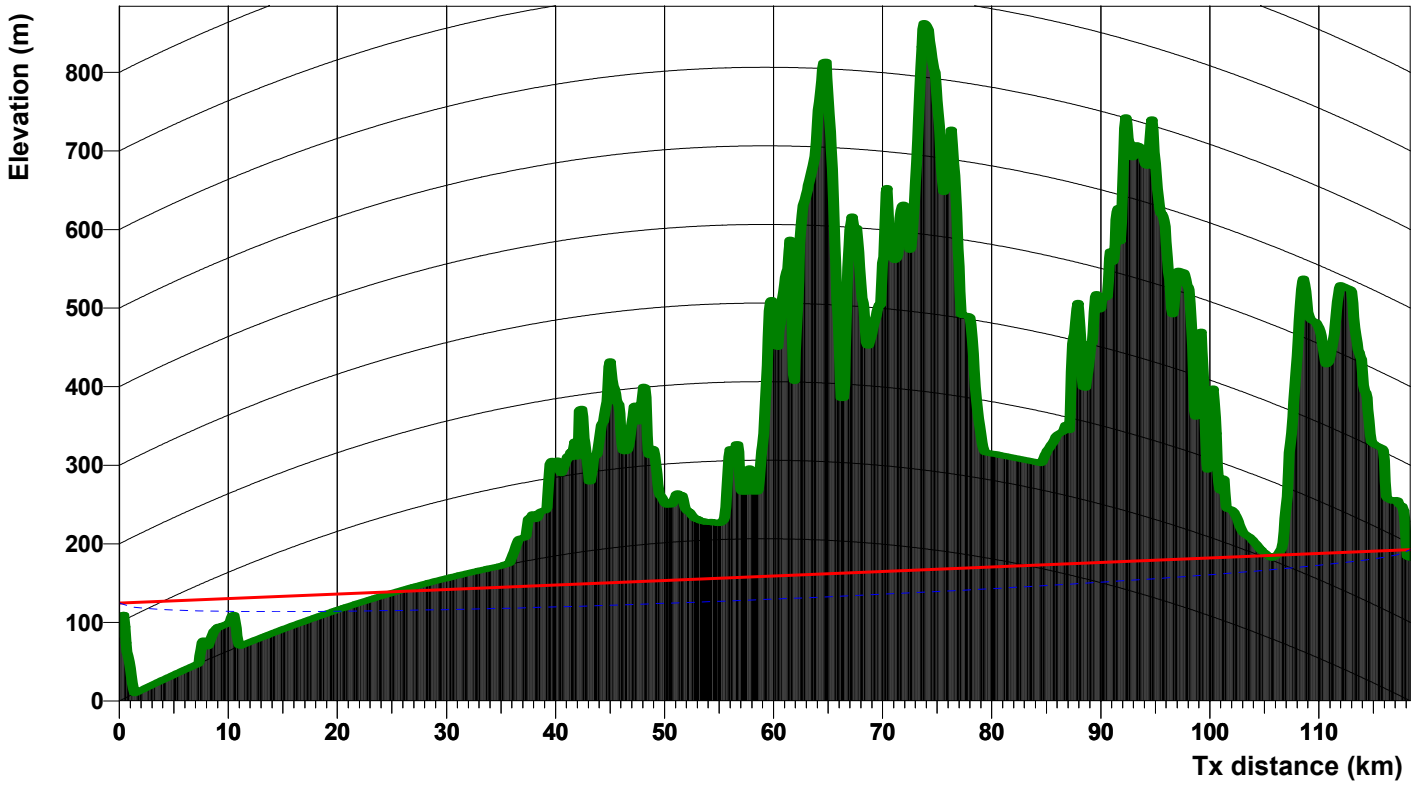
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 196.1 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -299.32 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT033 30 May 2005

Link Study: trn/CT034-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT034
Name: CT034
Location:
N37°54'36.44" W122°29'57.96"
Site elevation: 93.8 m
Antenna height: 31.0 m
Pointing azimuth: 14.9 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT034 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 118.39 km
Number of obstacles: 0
Excess path loss: 104.12 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 249.34 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

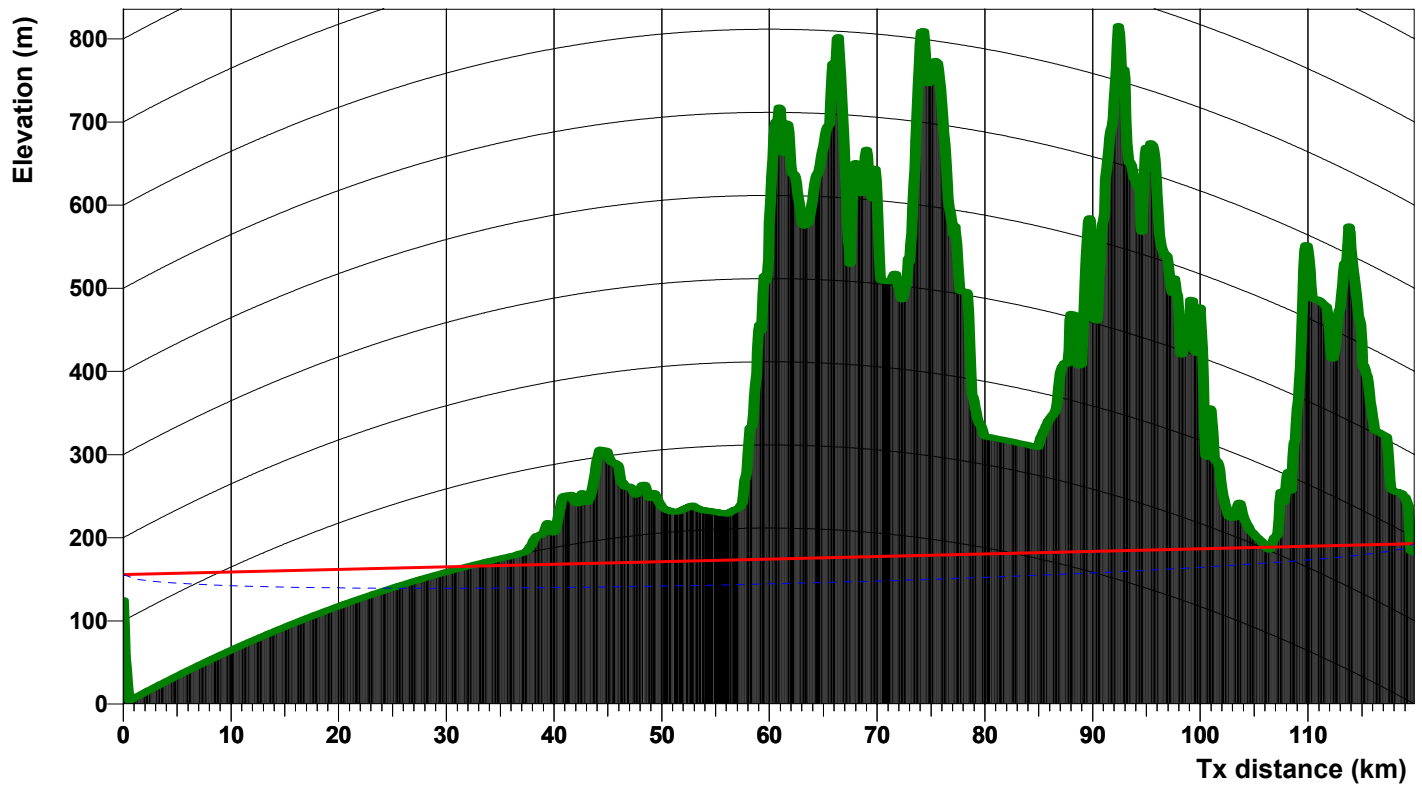
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 194.9 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -299.60 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT034 30 May 2005

Link Study: trn/CT035-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT035
Name: CT035
Location:
N37°53'18.48" W122°27'28.92"
Site elevation: 124.7 m
Antenna height: 31.0 m
Pointing azimuth: 13.0 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT035 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 119.85 km
Number of obstacles: 0
Excess path loss: 101.36 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 246.69 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

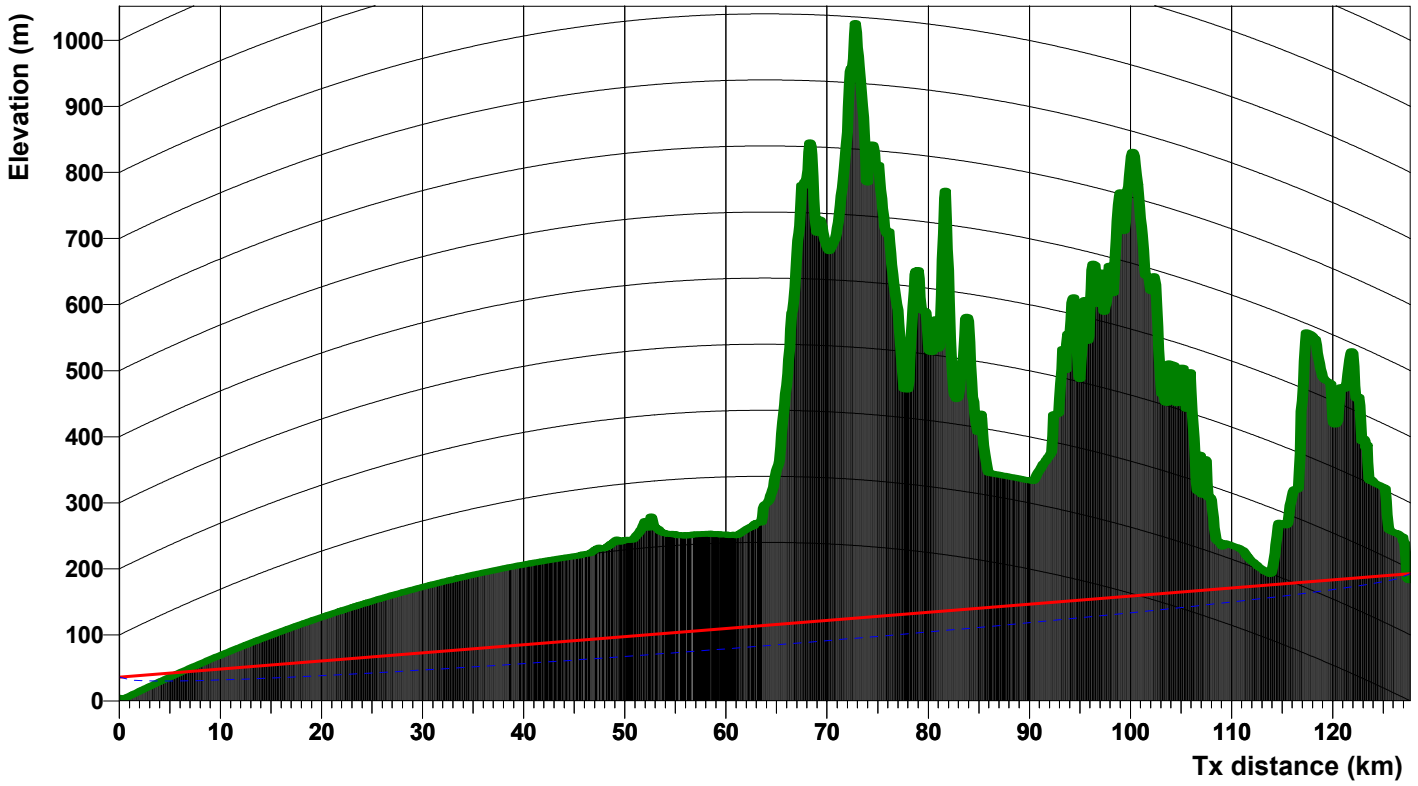
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 193.0 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -297.10 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT035 30 May 2005

Link Study: trn/CT036-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT036
Name: CT036
Location:
N37°48'35.78" W122°25'04.92"
Site elevation: 5.1 m
Antenna height: 31.0 m
Pointing azimuth: 10.6 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT036 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 127.68 km
Number of obstacles: 0
Excess path loss: 104.59 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 250.47 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

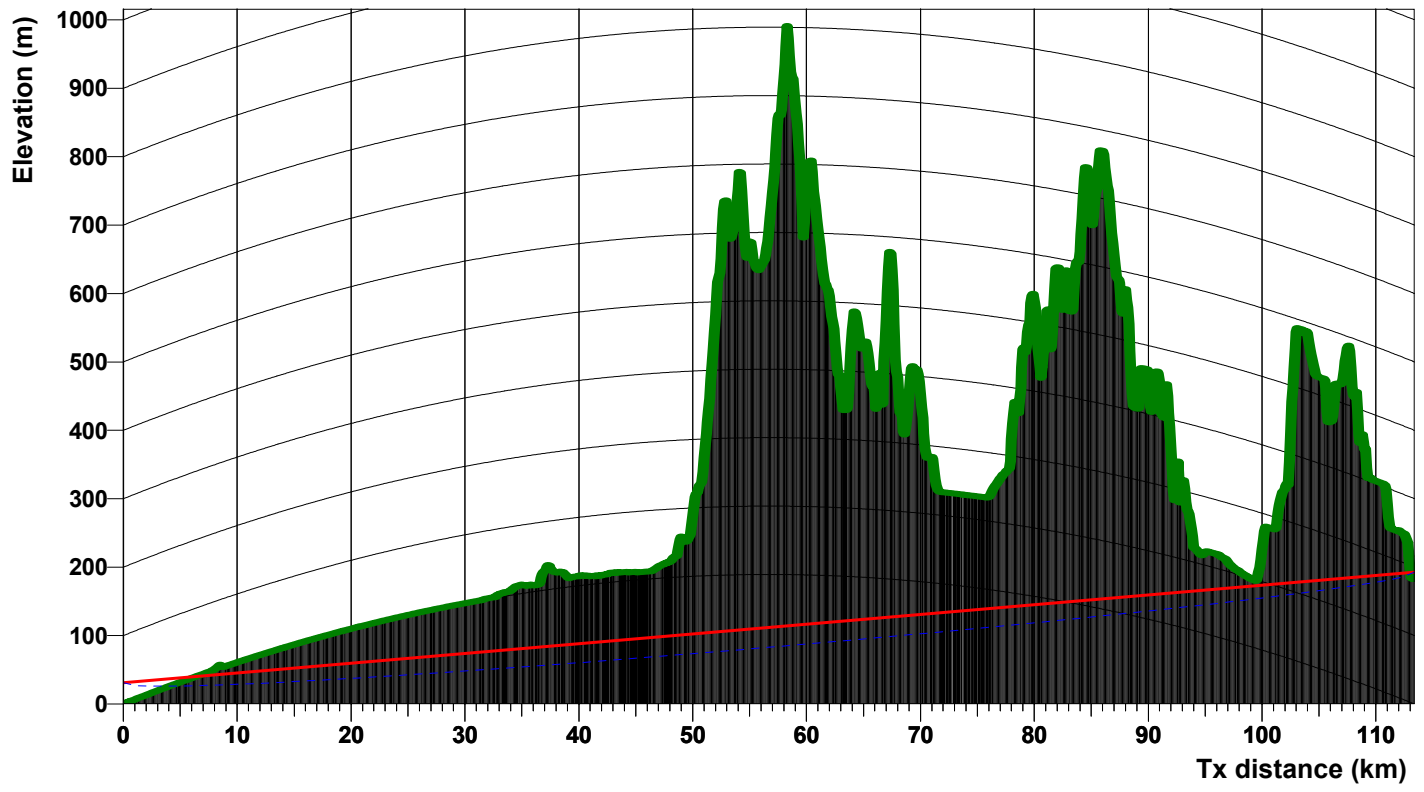
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 190.6 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -299.45 dBW

Notes

San Francisco
CT to Salt Creek

KA371 CT036 30 May 2005

Link Study: trn/CT_10-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT_10
Name: CT 10 degrees
Location:
N37°56'09.19" W122°22'57.22"
Site elevation: 0.0 m
Antenna height: 31.0 m
Pointing azimuth: 10.4 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT_10 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 113.35 km
Number of obstacles: 0
Excess path loss: 102.57 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 247.42 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

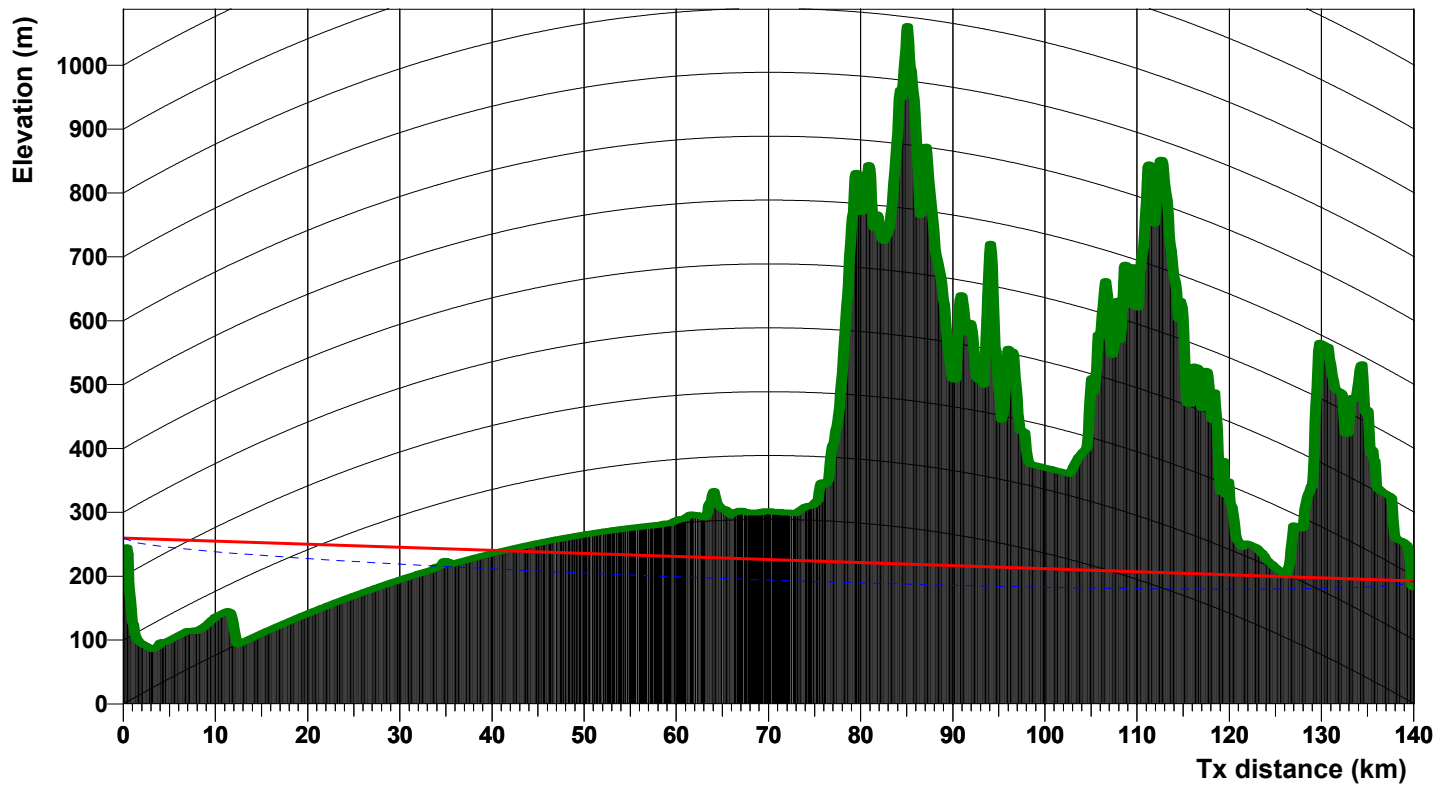
Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 190.4 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -293.14 dBW

Notes
CT closest to Salt Creek

San Francisco
CT to Salt Creek

KA371 CT_10 30 May 2005

Link Study: trn/CT190-KA371.trn



EDX SignalPro™

Prop. model: Longley-Rice v1.2.2
Time: 50.00 % Loc.: 50.00 %
Margin: 0.00 dB
Climate: Continental Temperate
Atm. factor: none
K factors: 1.333, 1.000, 1.000

Reliability Analysis
Fade outage method: Vigants-Barnett
C param. for Vigants-Barnett:
average prop. conditions: C=1
ITU-R terrain type: Inland
ITU-R refract. grad.: 10.0 %
External interf.: -100.0 dBmW
Dispersive fade margin: 50.0 dB
Ant. spacing (diversity): 0.0 m
Rain outage method: Crane
Rain region: A

Transmitter Site: CT190
Name: CT190
Location:
N37°41'55.84" W122°26'06.82"
Site elevation: 228.8 m
Antenna height: 31.0 m
Pointing azimuth: 10.3 °
Transmitter power: -18.00 dBW
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 18.00 dBi
Antenna file: a000002.pat
Total ERP: 0.00 dBW

Name: CT190 ->KA371
Frequency: 3675.0000 MHz
Polarization: vertical
Length: 140.09 km
Number of obstacles: 0
Excess path loss: 104.31 dB
Atm. absorption loss: 0.00 dB
Path loss for stats: 250.99 dB
Flat fade margin: -99.90 dB
Total fade margin: -99.90 dB
Annual fade outage: 3942000.00 s
Annual rain outage: 0.00 s
Link availability: 50.0000 %

Receiver Site: KA371
Name: Salt Creek
Location:
N38°56'20.20" W122°08'48.00"
Site elevation: 182.7 m
Antenna height: 10.0 m
Pointing azimuth: 190.3 °
Trans. line loss: 0.00 dB
Other losses: 0.00 dB
Antenna gain: 15.39 dBi
Antenna file: SaltCreekKA371.pat
Received signal level: -260.80 dBW

Notes
CT Opposite Salt Creek
No CT antenna discrimination

San Francisco
CT to Salt Creek

KA371 CT190 30 May 2005